

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100720\
 Data File : VU040548.D
 Acq On : 07 Oct 2020 16:19
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-WATER-05

Quant Time: Oct 08 01:21:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 01:13:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	272105	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	266297	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	128750	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	105940	45.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.66%
7) Chloroethane-d5	1.92	69	86867	48.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.58%
11) 1,1-Dichloroethene-d2	2.58	63	158830	35.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.24%
21) 2-Butanone-d5	4.64	46	214379	115.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.60%
24) Chloroform-d	5.08	84	191230	47.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.88%
26) 1,2-Dichloroethane-d4	5.72	65	132704	47.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.54%
32) Benzene-d6	5.75	84	367203	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.90%
36) 1,2-Dichloropropane-d6	6.70	67	121834	47.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.92%
41) Toluene-d8	7.91	98	316318	46.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.08%
43) trans-1,3-Dichloropropene-	8.19	79	58909	46.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.66%
47) 2-Hexanone-d5	8.64	63	133193	112.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.48%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	179901	49.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.06%
66) 1,2-Dichlorobenzene-d4	12.19	152	128395	49.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	6485	2.475 ug/L	99
3) Chloromethane	1.53	50	6683	2.427 ug/L	92
5) Vinyl chloride	1.61	62	6766	2.482 ug/L #	66
6) Bromomethane	1.86	94	3377	2.360 ug/L	98
8) Chloroethane	1.94	64	4454	2.708 ug/L	98
9) Trichlorofluoromethane	2.15	101	8774	2.509 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	6696	3.212 ug/L #	86
12) 1,1-Dichloroethene	2.59	96	5930	3.077 ug/L #	1
13) Acetone	2.64	43	11002	6.177 ug/L	100
14) Carbon disulfide	2.81	76	15996	2.418 ug/L	98
15) Methyl Acetate	2.96	43	7802	2.686 ug/L	100
16) Methylene chloride	3.06	84	5712	2.499 ug/L	94
17) trans-1,2-Dichloroethene	3.37	96	5013	2.442 ug/L	95
18) Methyl tert-butyl Ether	3.39	73	13857	2.146 ug/L	96
19) 1,1-Dichloroethane	3.89	63	9999	2.442 ug/L	97
20) cis-1,2-Dichloroethene	4.68	96	5337	2.413 ug/L	90
22) 2-Butanone	4.72	43	12131	5.339 ug/L	97

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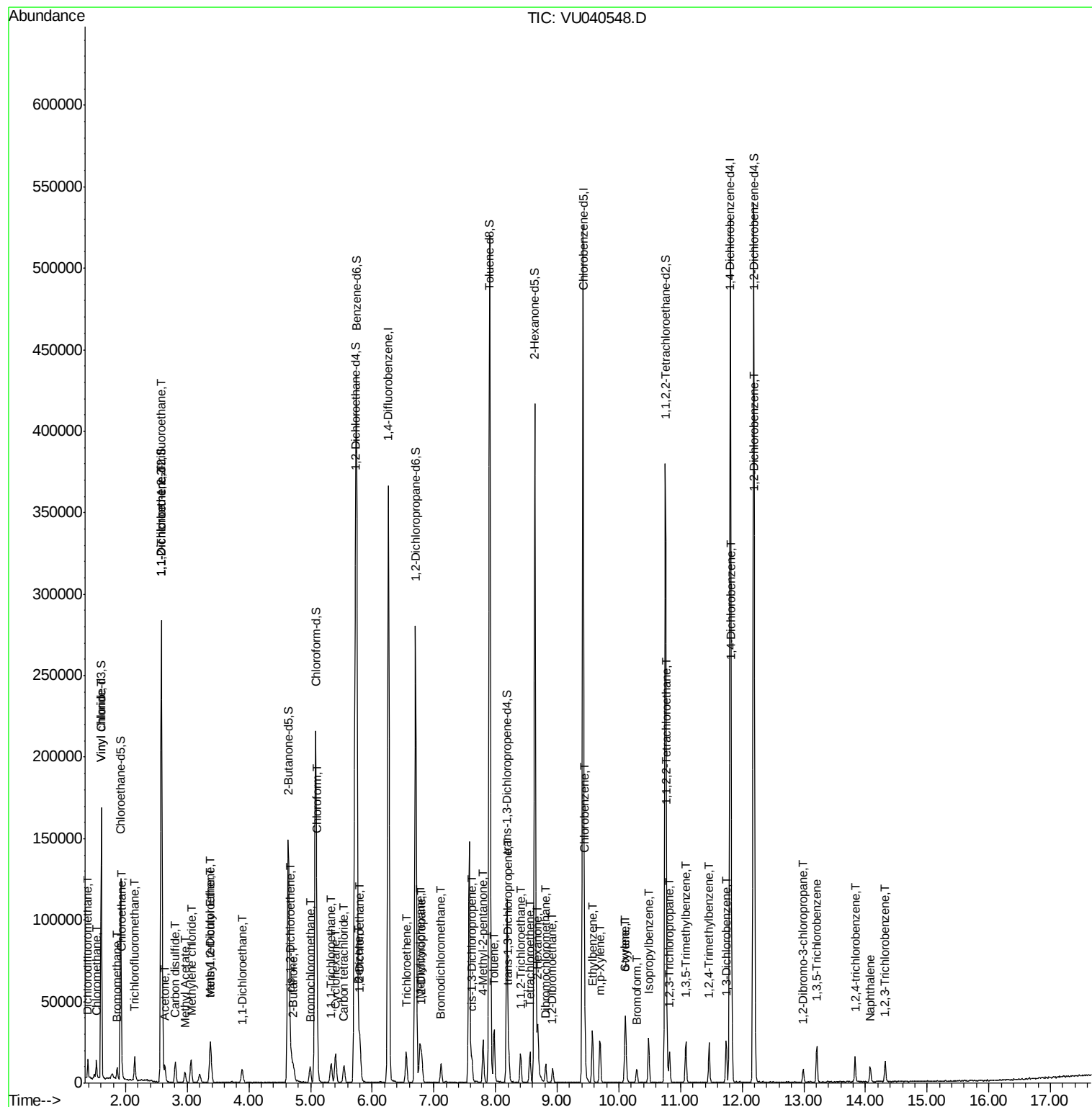
23) Bromochloromethane	4.99	128	2717	2.357	ug/L	89
25) Chloroform	5.11	83	11886	2.847	ug/L	95
27) 1,2-Dichloroethane	5.81	62	8840	2.566	ug/L	97
29) Cyclohexane	5.40	56	8165	2.290	ug/L	99
30) 1,1,1-Trichloroethane	5.34	97	8013	2.343	ug/L	95
31) Carbon tetrachloride	5.54	117	6926	2.342	ug/L	98
33) Benzene	5.79	78	21809	2.534	ug/L	100
34) Trichloroethene	6.56	95	5070	2.287	ug/L	94
35) Methylcyclohexane	6.78	83	7634	2.265	ug/L	96
37) 1,2-Dichloropropane	6.80	63	6003	2.540	ug/L #	94
38) Bromodichloromethane	7.12	83	7175	2.337	ug/L #	98
39) cis-1,3-Dichloropropene	7.61	75	7722	2.229	ug/L	91
40) 4-Methyl-2-pentanone	7.80	43	16856	4.520	ug/L	98
42) Toluene	7.98	91	20036	2.280	ug/L	91
44) trans-1,3-Dichloropropene	8.21	75	8617	2.471	ug/L	97
45) 1,1,2-Trichloroethane	8.41	97	5193	2.453	ug/L	87
46) Tetrachloroethene	8.56	164	4087	2.551	ug/L	97
48) 2-Hexanone	8.69	43	16947	5.591	ug/L	92
49) Dibromochloromethane	8.81	129	5589	2.417	ug/L	97
50) 1,2-Dibromoethane	8.93	107	5357	2.387	ug/L #	94
51) Chlorobenzene	9.45	112	13817	2.397	ug/L	97
52) Ethylbenzene	9.57	91	21690	2.224	ug/L	98
53) m,p-Xylene	9.69	106	7414	2.064	ug/L	89
54) o-xylene	10.10	106	6723	1.967	ug/L	97
55) Styrene	10.11	104	11425	1.898	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.78	83	9299	2.483	ug/L #	96
59) Bromoform	10.29	173	3678	2.331	ug/L	96
60) 1,2,3-Trichloropropane	10.82	75	7387	2.526	ug/L	96
61) Isopropylbenzene	10.48	105	17168	1.986	ug/L	99
62) 1,3,5-Trimethylbenzene	11.09	105	13436	1.891	ug/L	96
63) 1,2,4-Trimethylbenzene	11.47	105	12586	1.747	ug/L	96
64) 1,3-Dichlorobenzene	11.74	146	9425	2.236	ug/L	96
65) 1,4-Dichlorobenzene	11.83	146	10868	2.454	ug/L	96
67) 1,2-Dichlorobenzene	12.21	146	11087	2.625	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.99	75	2248	2.736	ug/L	94
69) 1,3,5-Trichlorobenzene	13.21	180	6287	2.276	ug/L	98
70) 1,2,4-trichlorobenzene	13.83	180	4405	1.840	ug/L	98
71) Naphthalene	14.08	128	7674	1.037	ug/L	98
72) 1,2,3-Trichlorobenzene	14.32	180	3855	1.622	ug/L	99

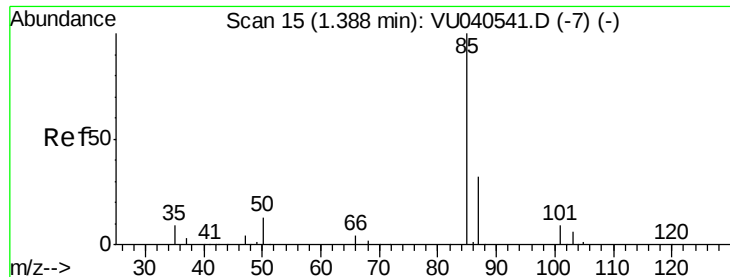
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.475 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

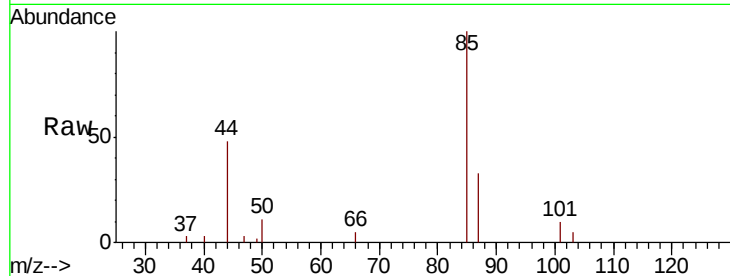
MDL-WATER-05

Tot Ion: 85 Resp: 6485

Ion Ratio Lower Upper

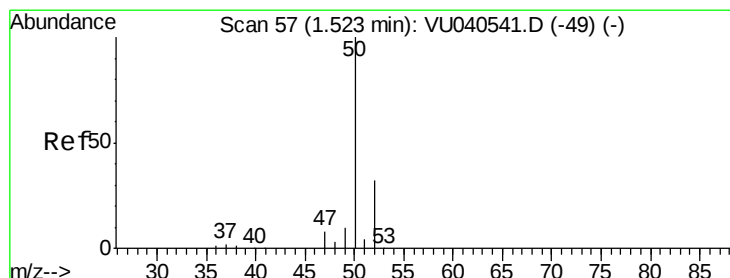
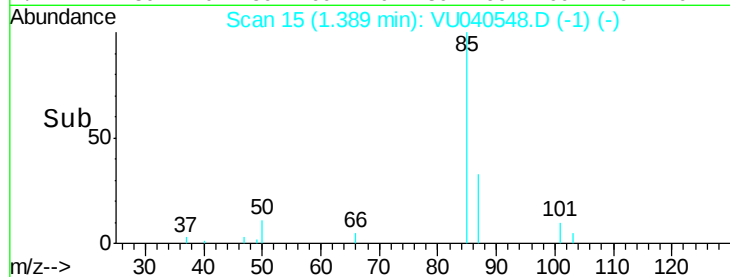
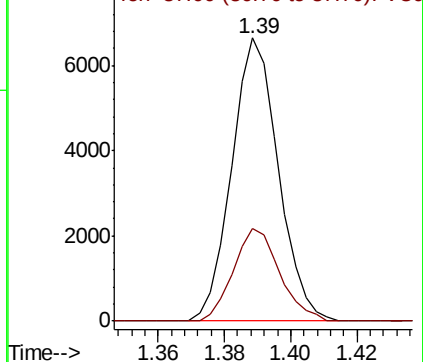
85 100

87 32.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.427 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040548.D

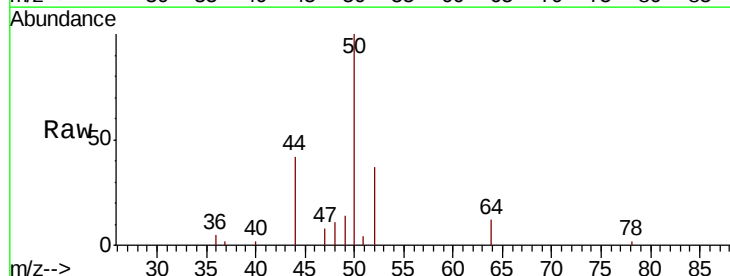
Acq: 07 Oct 2020 16:19

Tgt Ion: 50 Resp: 6683

Ion Ratio Lower Upper

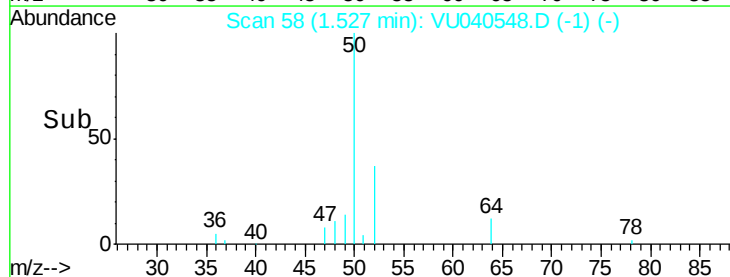
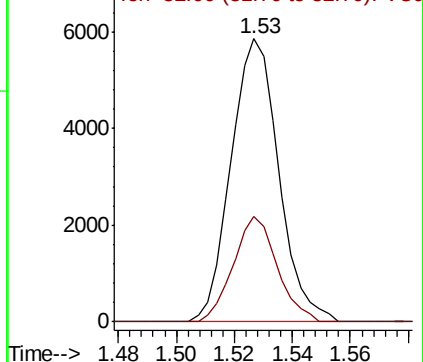
50 100

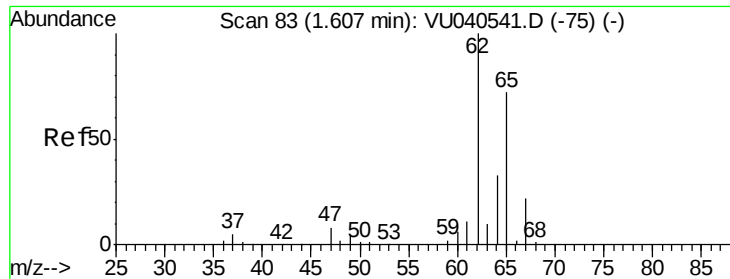
52 37.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.482 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

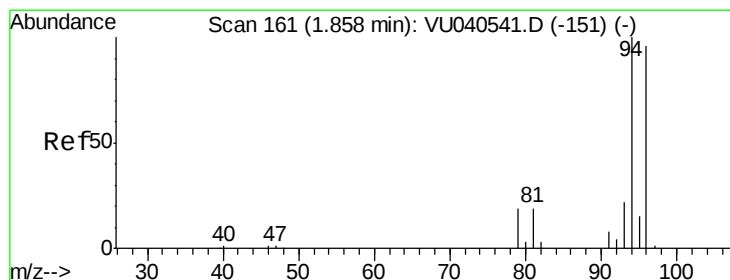
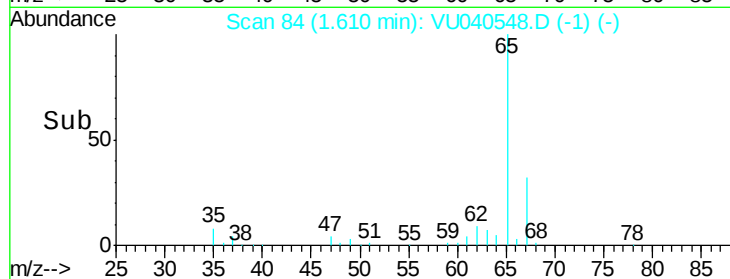
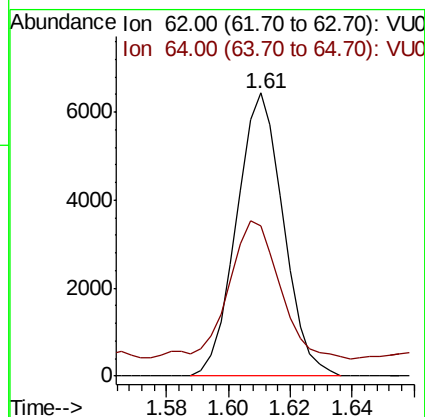
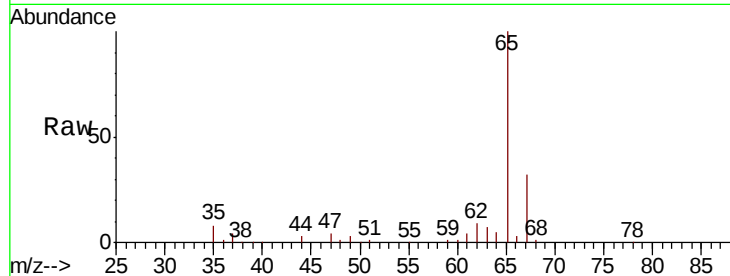
MDL-WATER-05

Tot Ion: 62 Resp: 6766

Ion Ratio Lower Upper

62 100

64 53.0 23.4 43.6#



#6

Bromomethane

Concen: 2.360 ug/L

RT: 1.86 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU040548.D

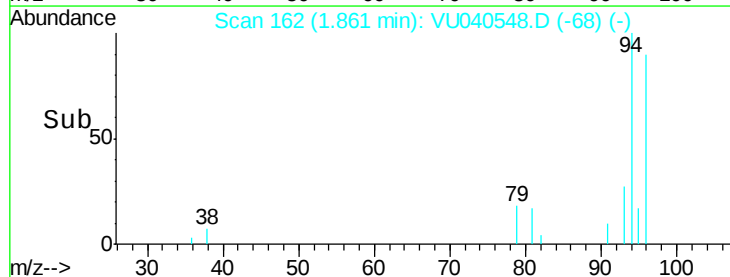
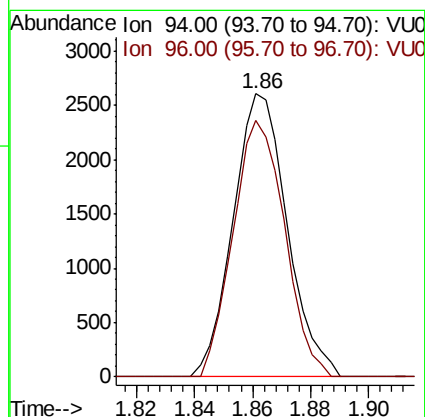
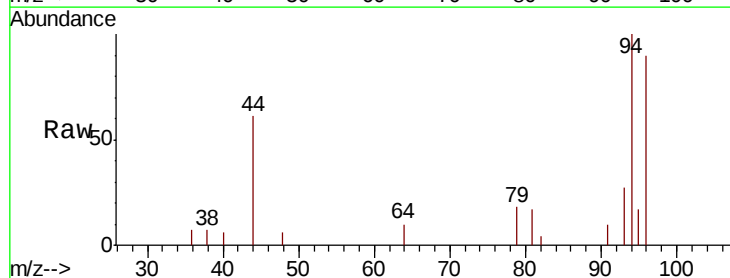
Acq: 07 Oct 2020 16:19

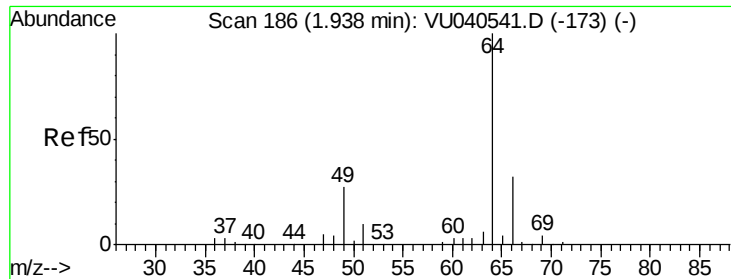
Tgt Ion: 94 Resp: 3377

Ion Ratio Lower Upper

94 100

96 90.5 64.4 119.6





#8

Chloroethane

Concen: 2.708 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

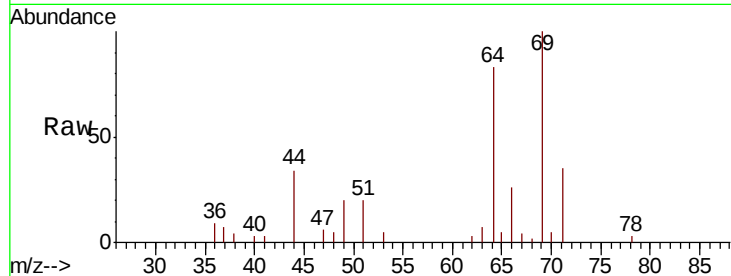
MDL-WATER-05

Tot Ion: 64 Resp: 4454

Ion Ratio Lower Upper

64 100

66 31.4 22.5 41.9

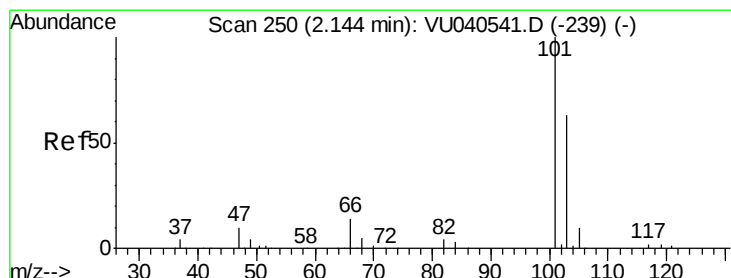
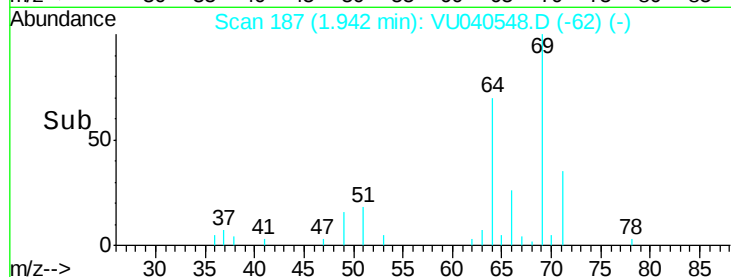


Abundance Ion 64.00 (63.70 to 64.70): VU040548.D (-173) (-)

Ion 66.00 (65.70 to 66.70): VU040548.D (-173) (-)

1.94

Time-->



#9

Trichlorofluoromethane

Concen: 2.509 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040548.D

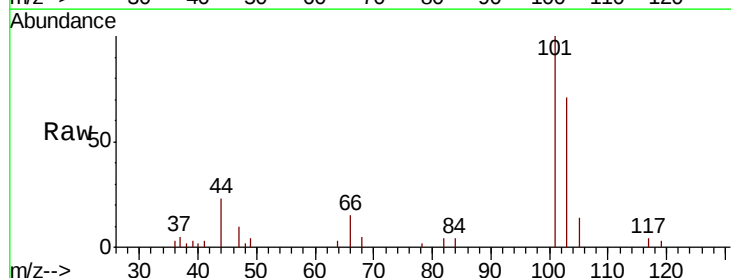
Acq: 07 Oct 2020 16:19

Tgt Ion: 101 Resp: 8774

Ion Ratio Lower Upper

101 100

103 67.1 52.1 78.1

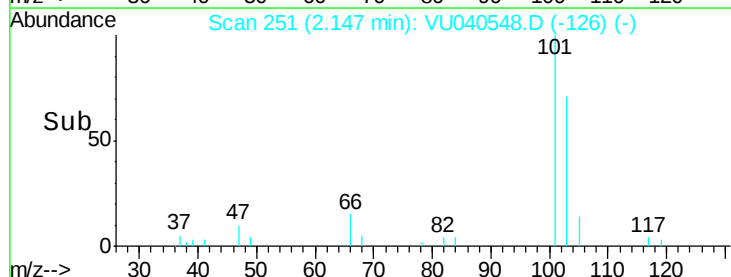


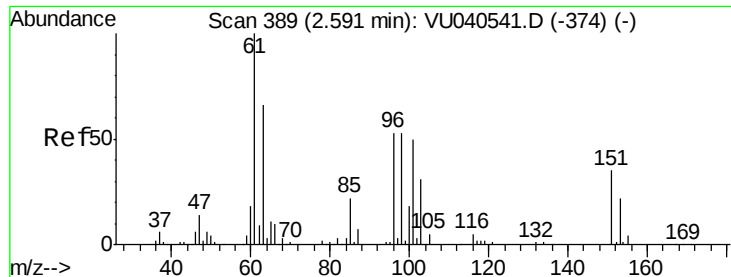
Abundance Ion 101.00 (100.70 to 101.70): VU040548.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU040548.D (-239) (-)

2.15

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.212 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

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MDL-WATER-05

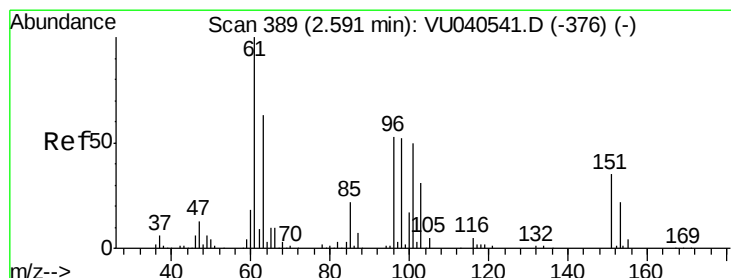
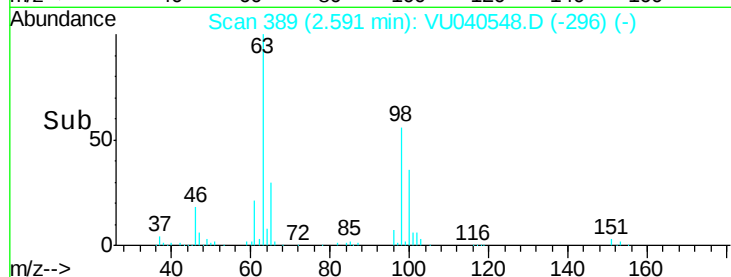
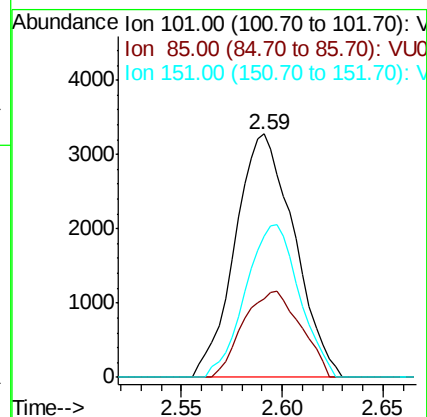
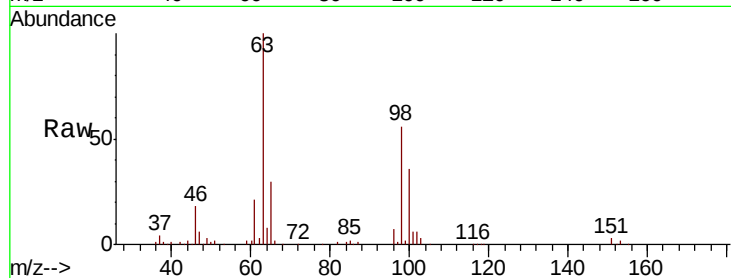
Tot Ion:101 Resp: 6696

Ion Ratio Lower Upper

101 100

85 34.5 35.4 53.2#

151 57.2 54.8 82.2



#12

1,1-Dichloroethene

Concen: 3.077 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

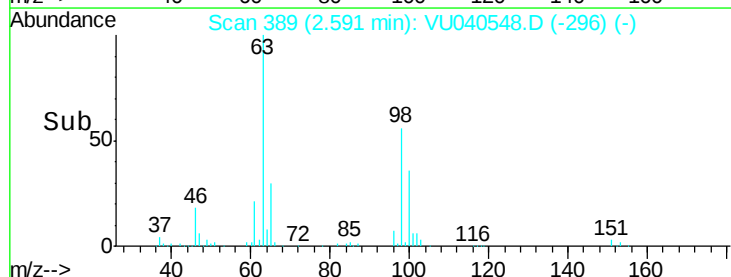
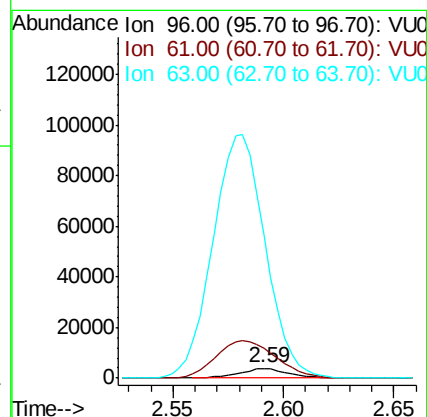
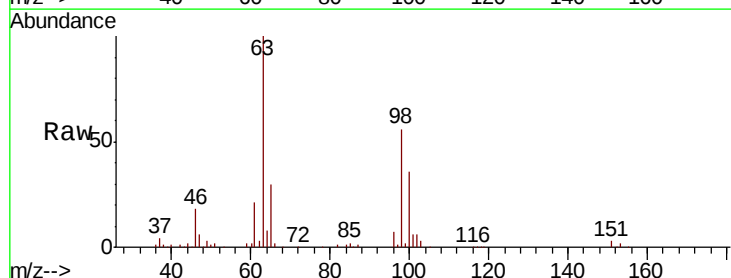
Tgt Ion: 96 Resp: 5930

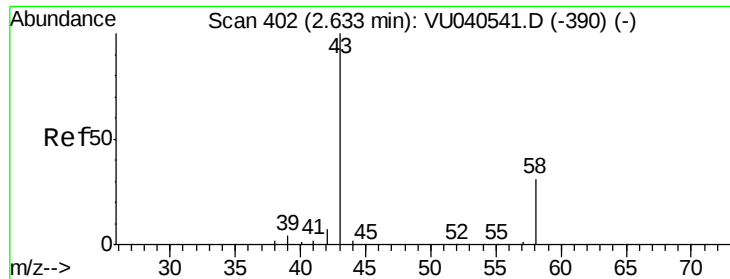
Ion Ratio Lower Upper

96 100

61 321.7 135.0 250.8#

63 1517.5 101.4 188.2#





#13

Acetone

Concen: 6.177 ug/L

RT: 2.64 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU040548.D

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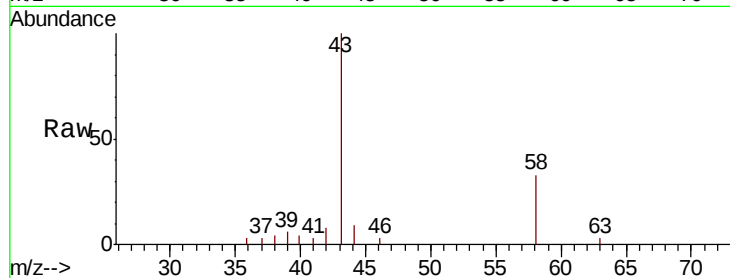
MDL-WATER-05

Tot Ion: 43 Resp: 11002

Ion Ratio Lower Upper

43 100

58 30.0 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040548.D (-390) (-)

Ion 58.00 (57.70 to 58.70): VU040548.D (-390) (-)

2.64

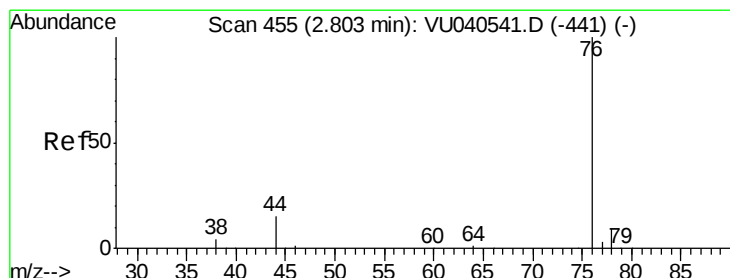
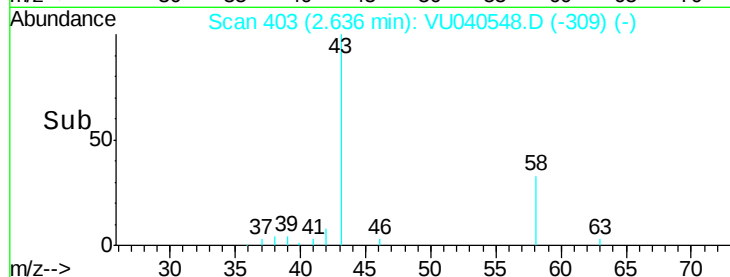
6000

4000

2000

0

Time-->



#14

Carbon disulfide

Concen: 2.418 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040548.D

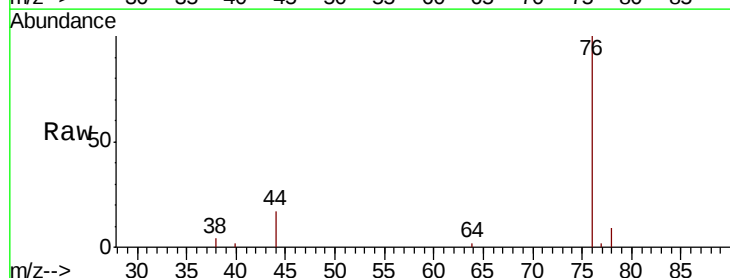
Acq: 07 Oct 2020 16:19

Tgt Ion: 76 Resp: 15996

Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040548.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VU040548.D (-362) (-)

2.81

10000

8000

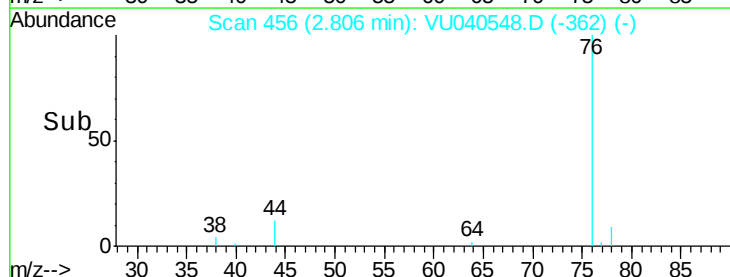
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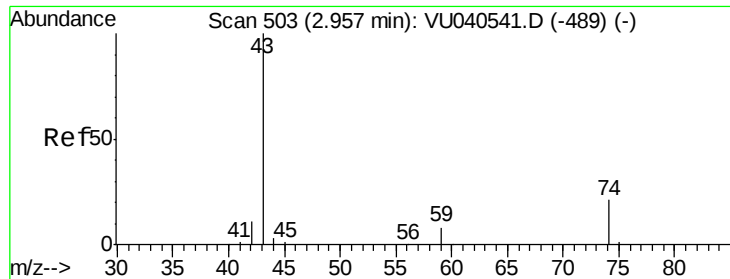
4000

2000

0

Time-->





#15

Methvl Acetate

Concen: 2.686 ug/L

RT: 2.96 min Scan# 504

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

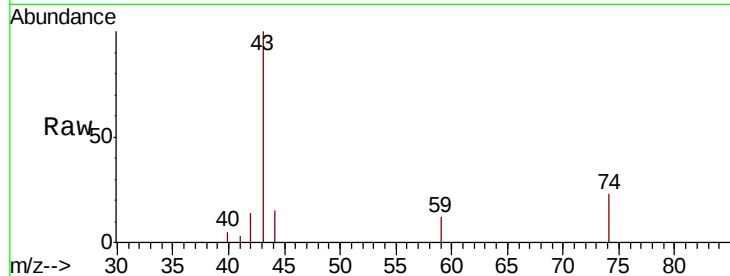
MDL-WATER-05

Tot Ion: 43 Resp: 7802

Ion Ratio Lower Upper

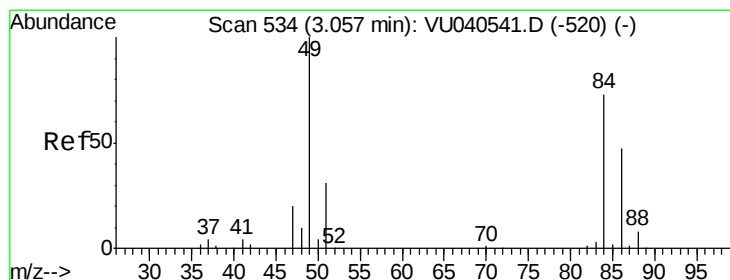
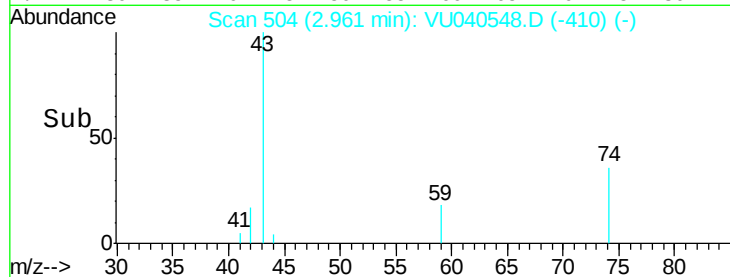
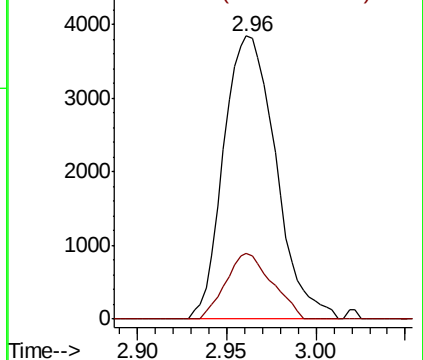
43 100

74 20.7 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.499 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

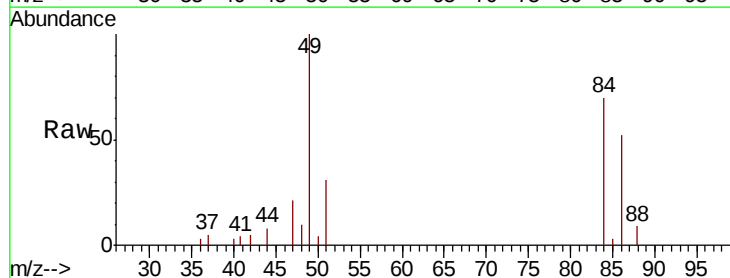
Tgt Ion: 84 Resp: 5712

Ion Ratio Lower Upper

84 100

86 74.1 45.4 84.4

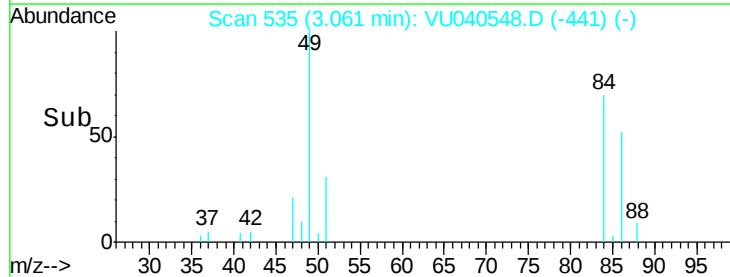
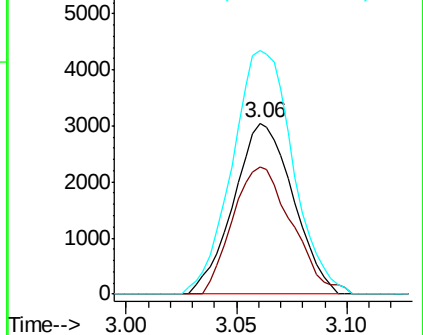
49 142.2 102.9 191.1

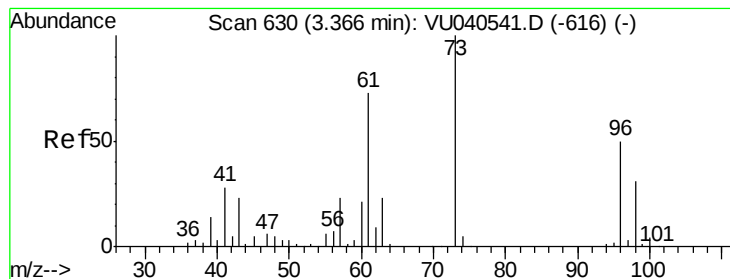


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.442 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleID :

MDL-WATER-05

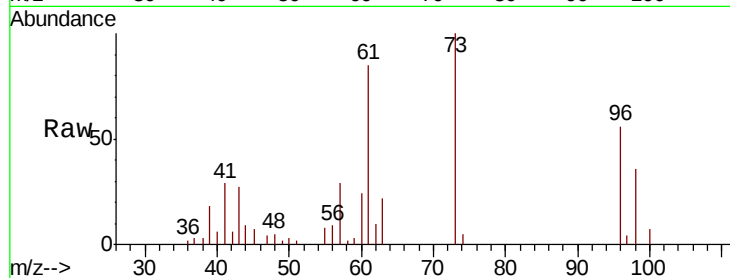
Tot Ion: 96 Resp: 5013

Ion Ratio Lower Upper

96 100

61 149.9 109.6 203.6

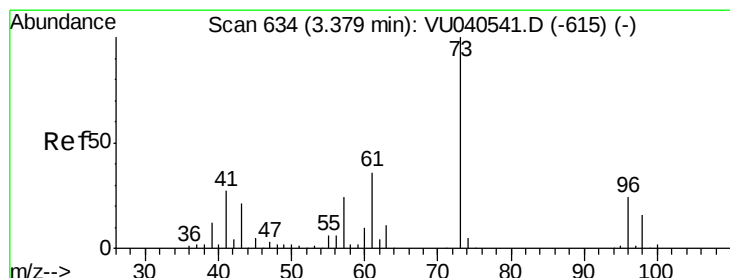
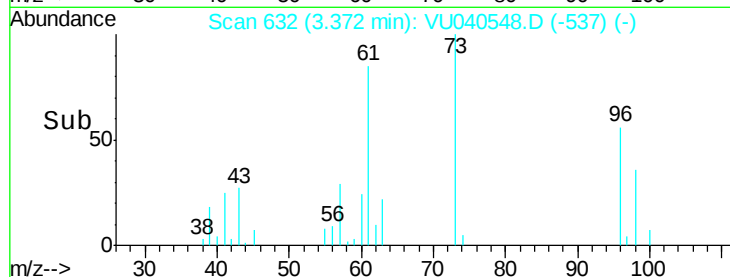
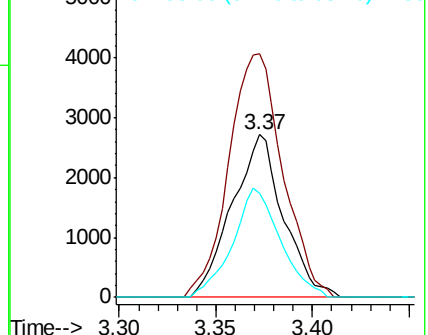
98 64.5 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040541.D (-616) (-)

Ion 61.00 (60.70 to 61.70): VU040541.D (-616) (-)

Ion 98.00 (97.70 to 98.70): VU040541.D (-616) (-)



#18

Methyl tert-butyl Ether

Concen: 2.146 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

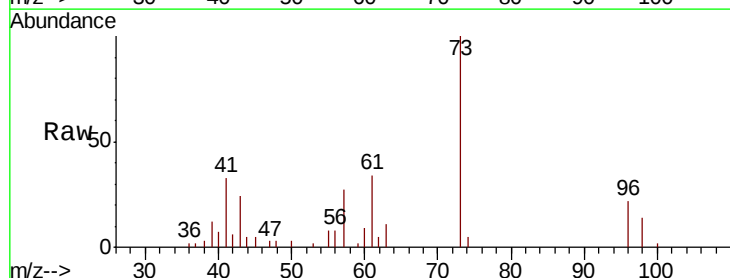
Tgt Ion: 73 Resp: 13857

Ion Ratio Lower Upper

73 100

43 23.6 18.2 27.2

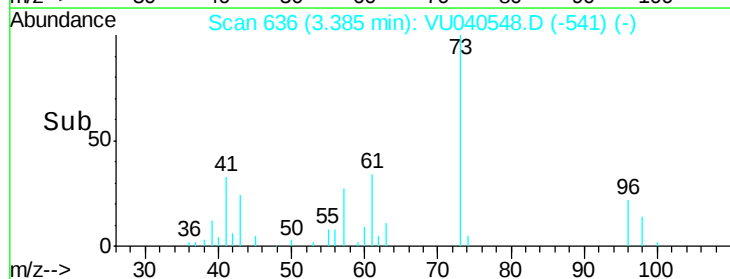
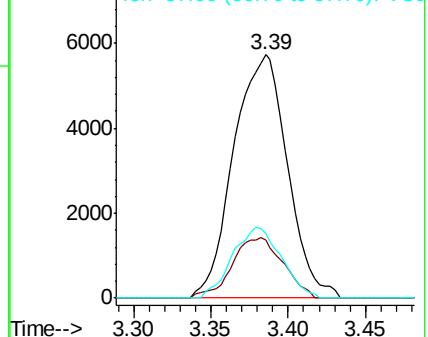
57 26.4 18.5 27.7

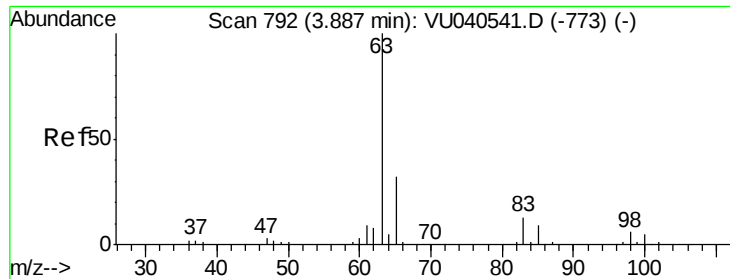


Abundance Ion 73.00 (72.70 to 73.70): VU040541.D (-615) (-)

Ion 43.00 (42.70 to 43.70): VU040541.D (-615) (-)

Ion 57.00 (56.70 to 57.70): VU040541.D (-615) (-)

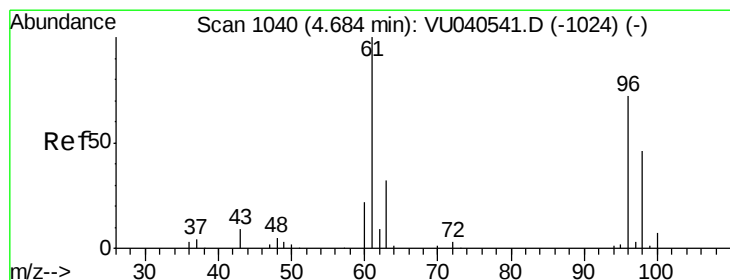
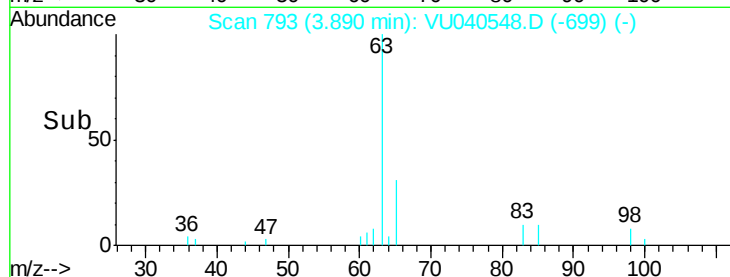
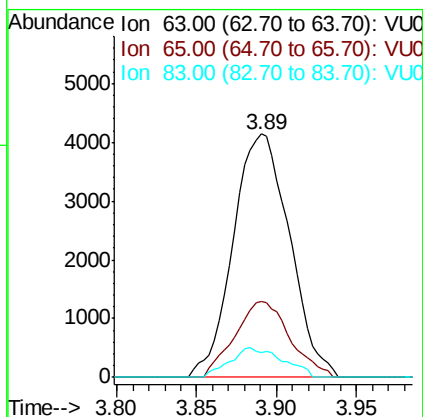
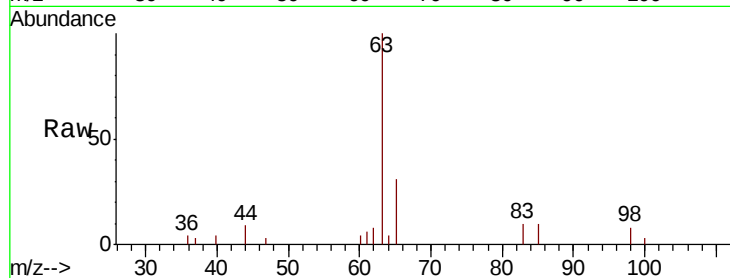




#19
 1,1-Dichloroethane
 Concen: 2.442 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

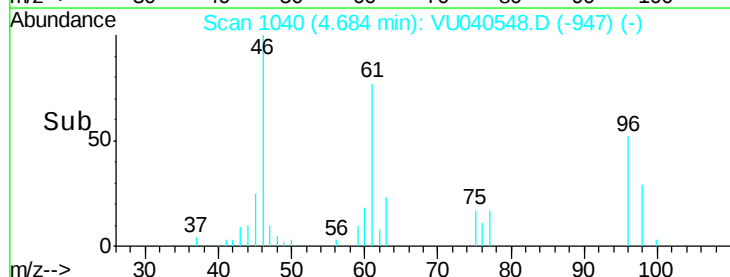
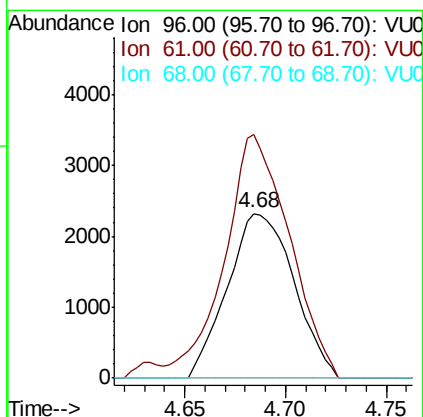
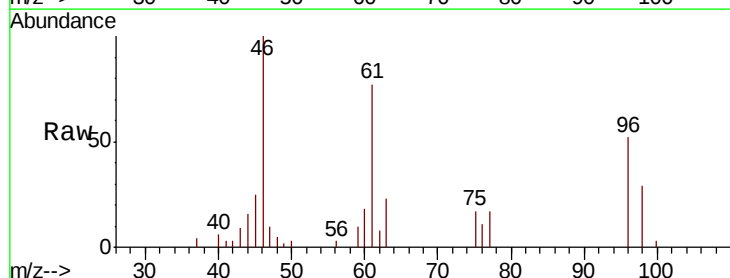
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-05

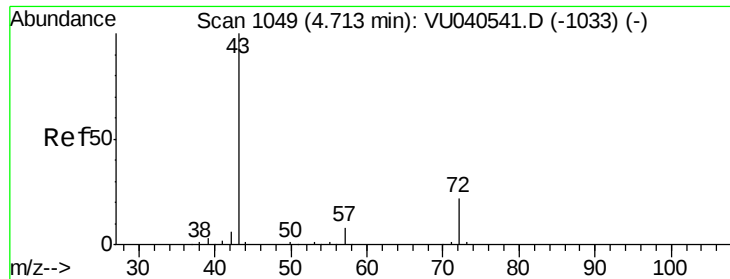
Tot Ion: 63 Resp: 9999
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.6 42.0
 83 10.3 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 2.413 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Tgt Ion: 96 Resp: 5337
 Ion Ratio Lower Upper
 96 100
 61 148.1 95.7 177.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.339 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

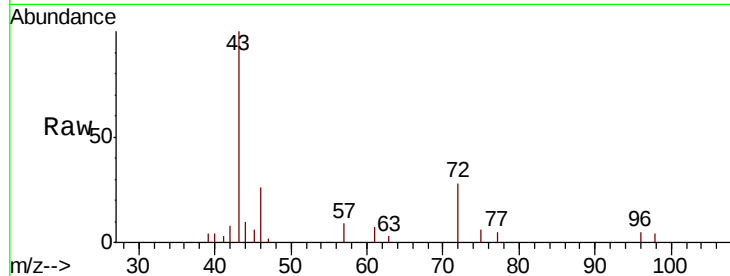
MDL-WATER-05

Tot Ion: 43 Resp: 12131

Ion Ratio Lower Upper

43 100

72 25.6 11.9 35.9

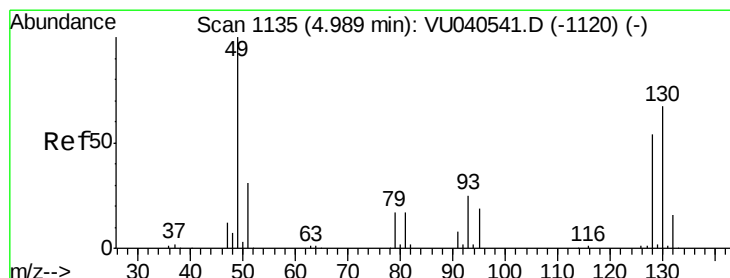
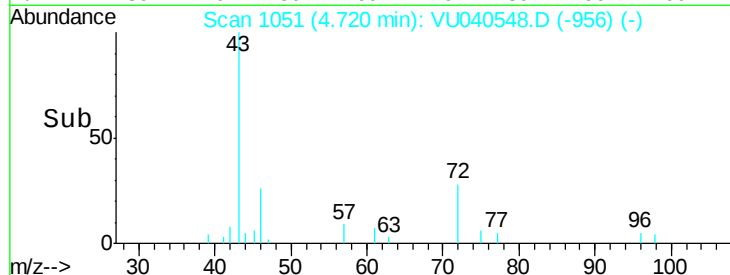


Abundance Ion 43.00 (42.70 to 43.70): VU040548.D (-956) (-)

Ion 72.00 (71.70 to 72.70): VU040548.D (-956) (-)

4.72

Time-->



#23

Bromochloromethane

Concen: 2.357 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Tgt Ion:128 Resp: 2717

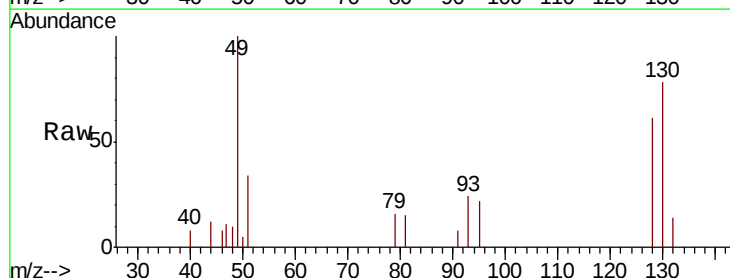
Ion Ratio Lower Upper

128 100

49 163.8 133.1 247.3

130 127.3 90.5 168.1

51 56.0 48.4 72.6



Abundance Ion 128.00 (127.70 to 128.70): VU040548.D (-1042) (-)

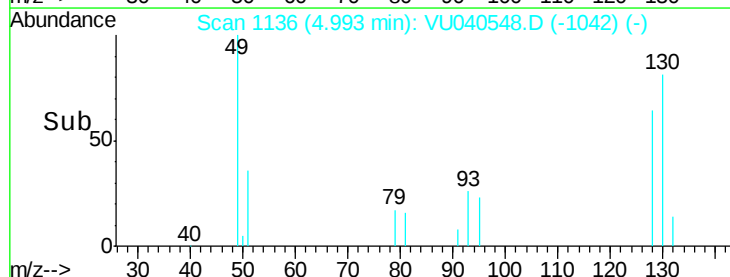
Ion 49.00 (48.70 to 49.70): VU040548.D (-1042) (-)

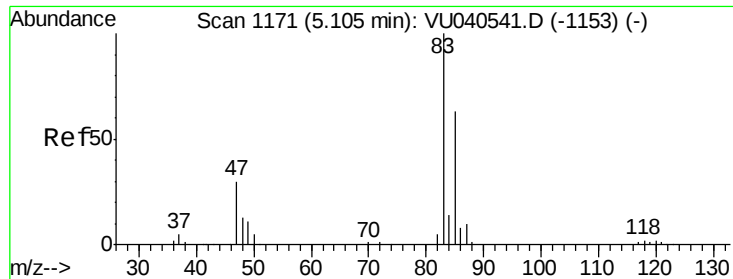
Ion 130.00 (129.70 to 130.70): VU040548.D (-1042) (-)

Ion 51.00 (50.70 to 51.70): VU040548.D (-1042) (-)

4.99

Time-->

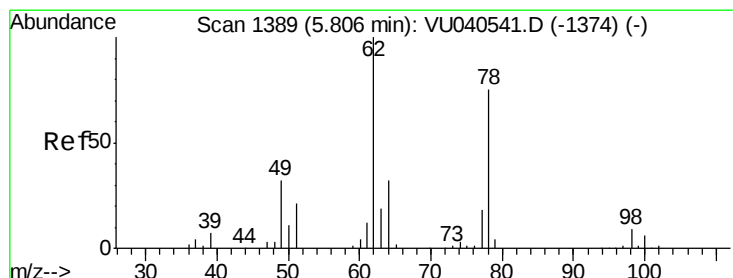
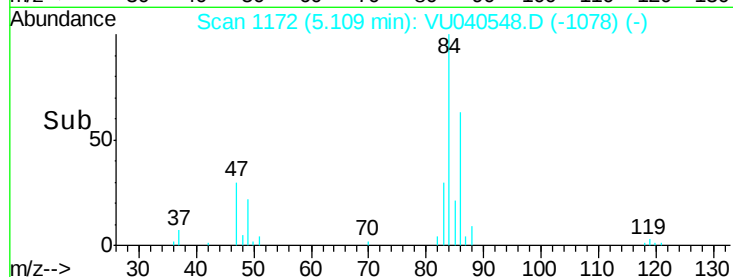
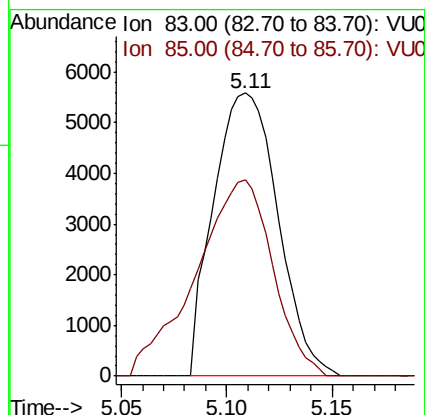
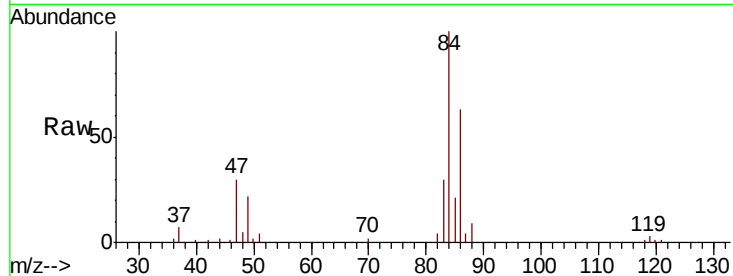




#25
Chloroform
Concen: 2.847 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

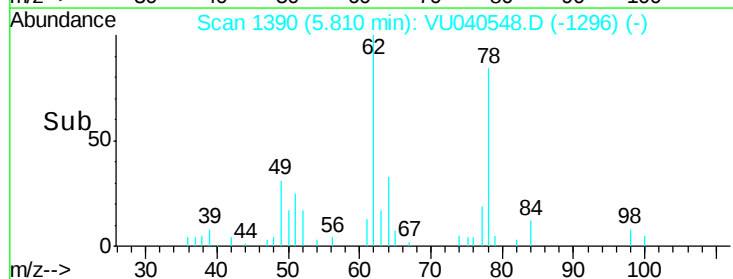
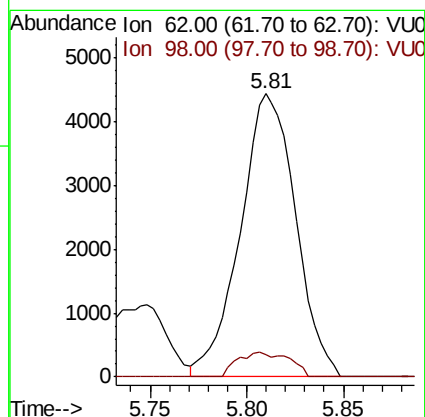
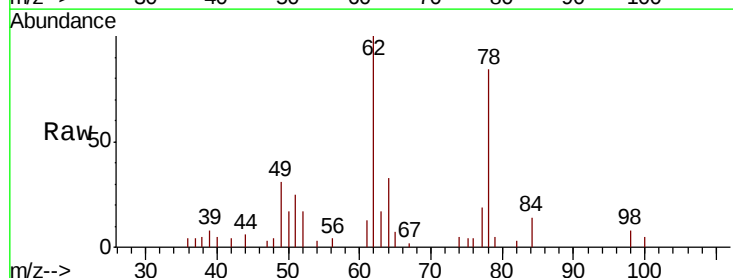
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-05

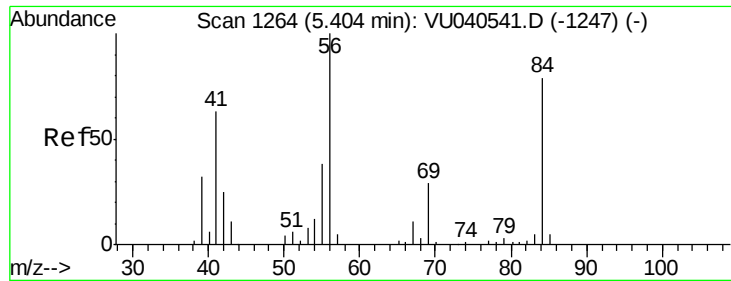
Tot Ion: 83 Resp: 11886
Ion Ratio Lower Upper
83 100
85 69.5 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.566 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Tgt Ion: 62 Resp: 8840
Ion Ratio Lower Upper
62 100
98 7.9 7.1 10.7

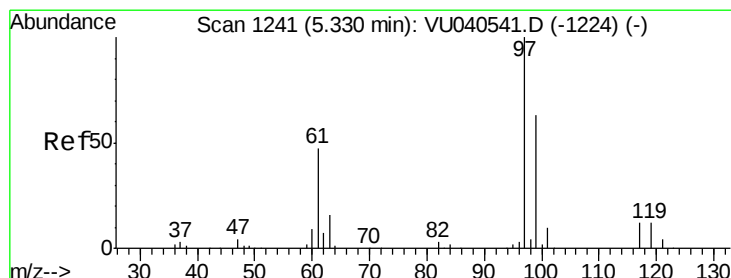
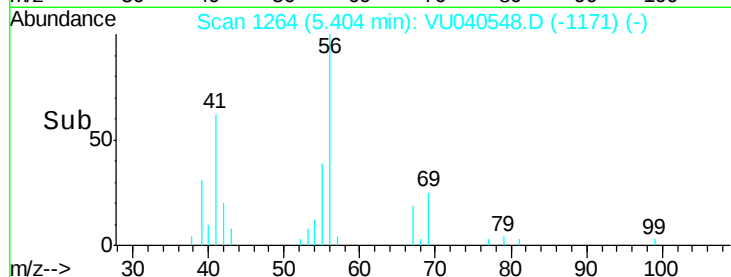
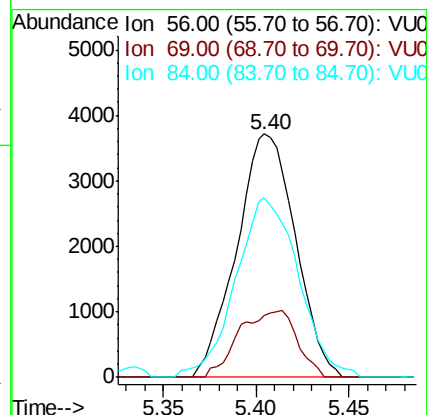
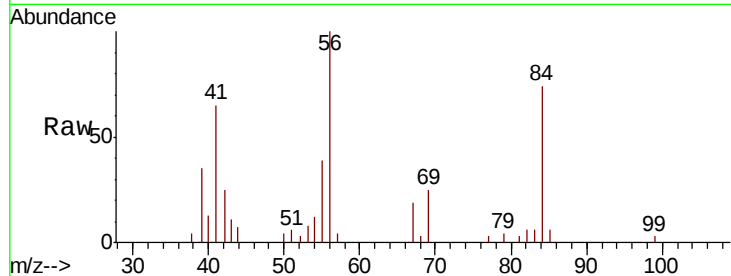




#29
Cyclohexane
Concen: 2.290 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

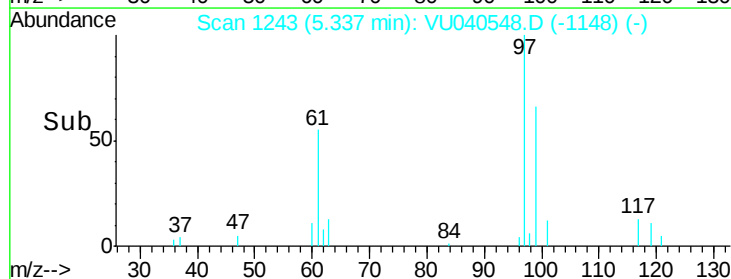
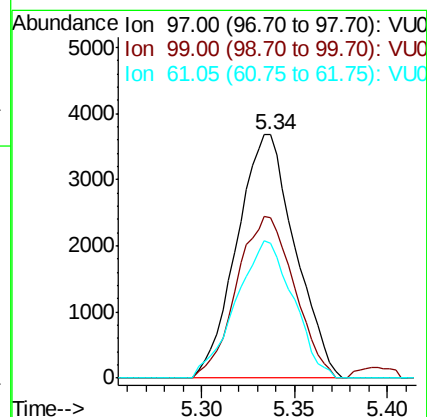
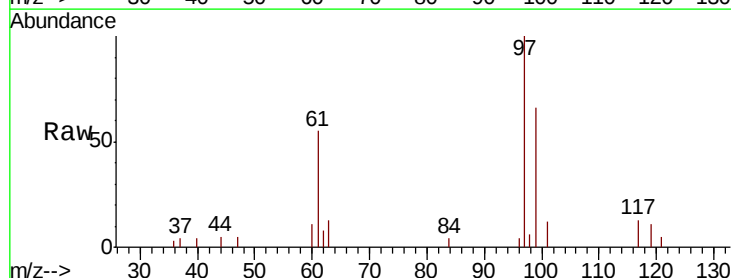
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-05

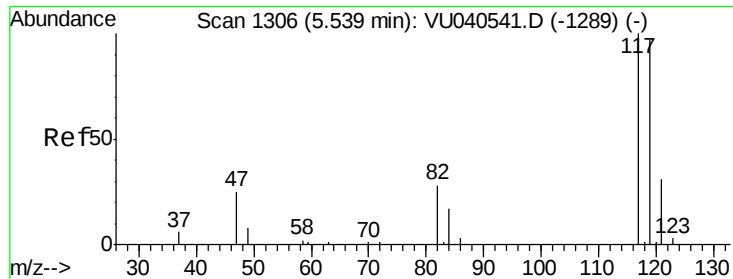
Tot Ion: 56 Resp: 8165
Ion Ratio Lower Upper
56 100
69 27.0 22.6 34.0
84 78.8 63.1 94.7



#30
1,1,1-Trichloroethane
Concen: 2.343 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.01 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Tgt Ion: 97 Resp: 8013
Ion Ratio Lower Upper
97 100
99 65.6 51.0 76.6
61 55.4 39.4 59.2





#31

Carbon tetrachloride

Concen: 2.342 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

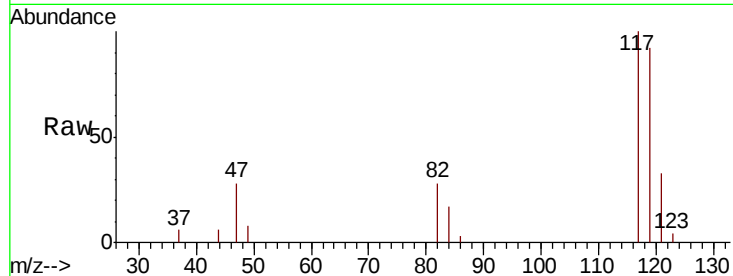
MDL-WATER-05

Tot Ion:117 Resp: 6926

Ion Ratio Lower Upper

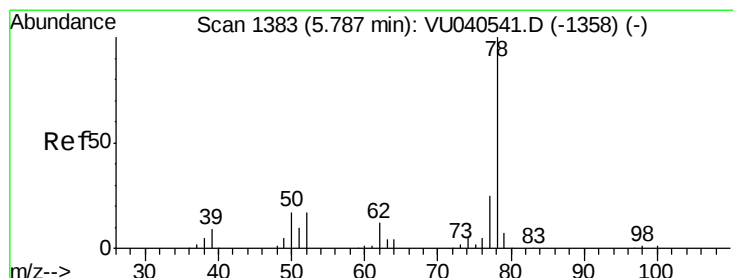
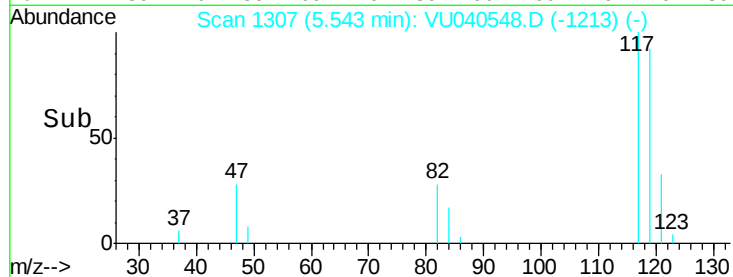
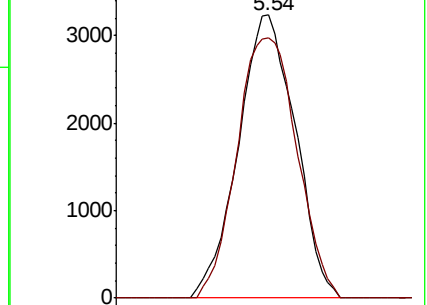
117 100

119 97.0 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.534 ug/L

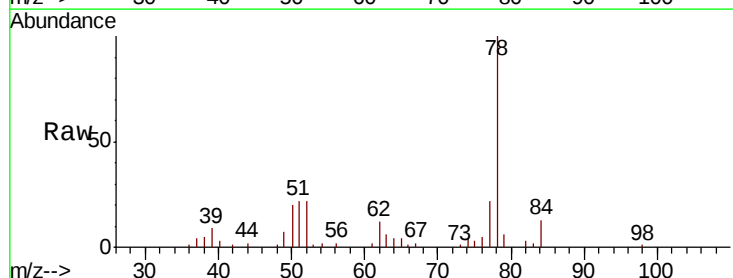
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

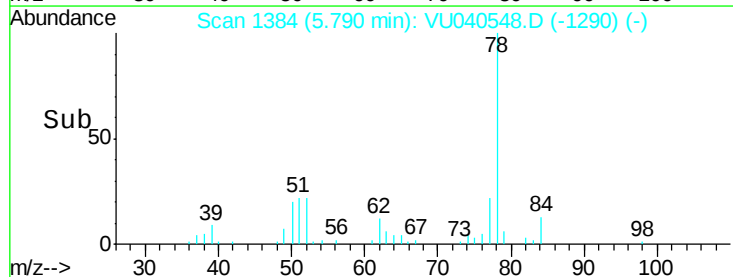
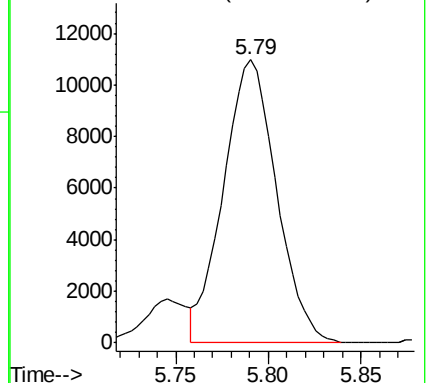
Lab File: VU040548.D

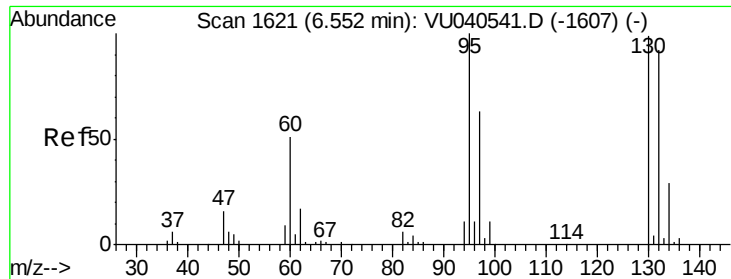
Acq: 07 Oct 2020 16:19

Tgt Ion: 78 Resp: 21809



Abundance Ion 78.00 (77.70 to 78.70): VU0

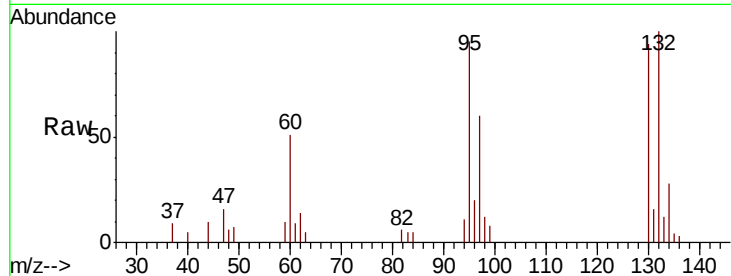




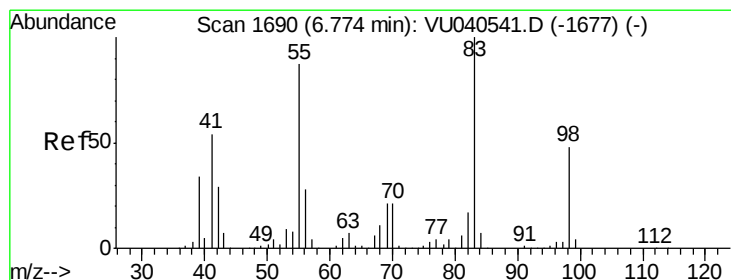
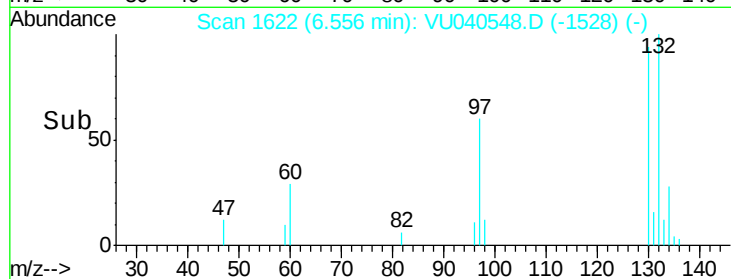
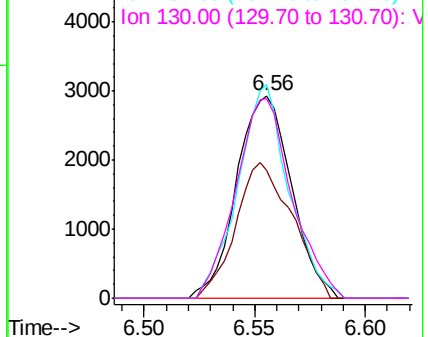
#34
 Trichloroethene
 Concen: 2.287 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-05

Tot Ion: 95 Resp: 5070
 Ion Ratio Lower Upper
 95 100
 97 63.0 44.3 82.3
 132 105.6 64.2 119.2
 130 98.9 67.3 125.1

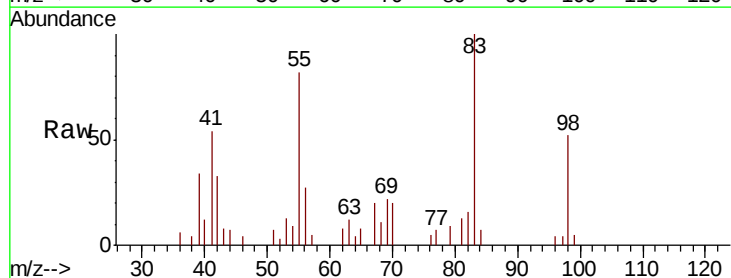


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

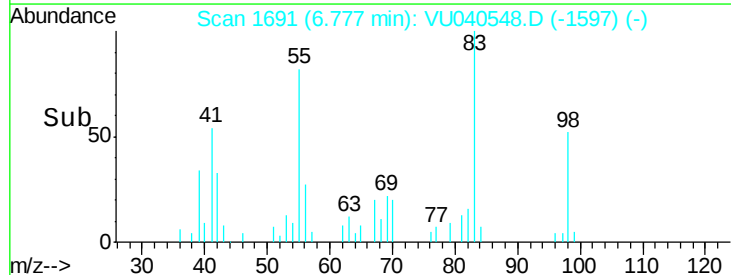
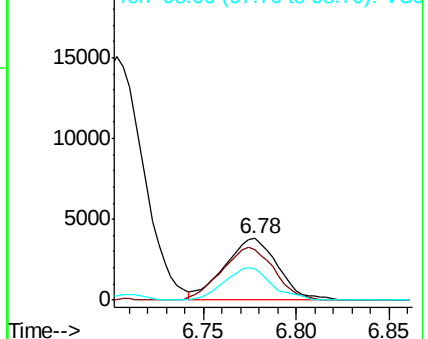


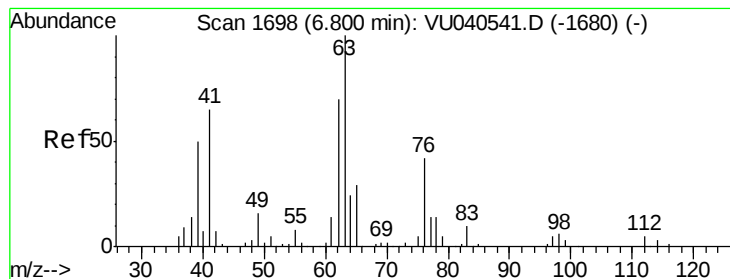
#35
 Methylcyclohexane
 Concen: 2.265 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Tgt Ion: 83 Resp: 7634
 Ion Ratio Lower Upper
 83 100
 55 83.5 69.8 104.8
 98 46.5 39.1 58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.540 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

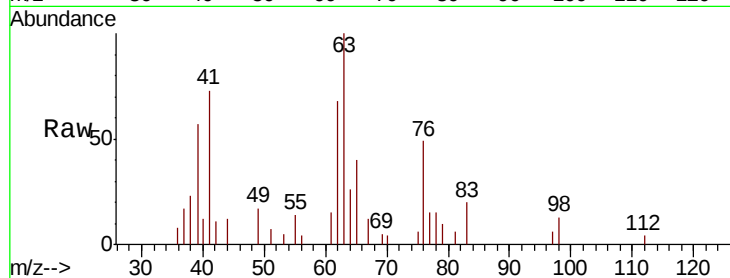
MDL-WATER-05

Tot Ion: 63 Resp: 6003

Ion Ratio Lower Upper

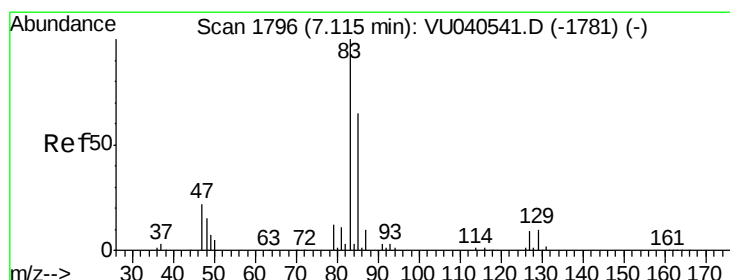
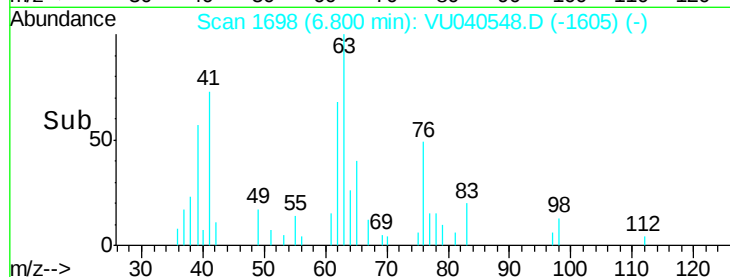
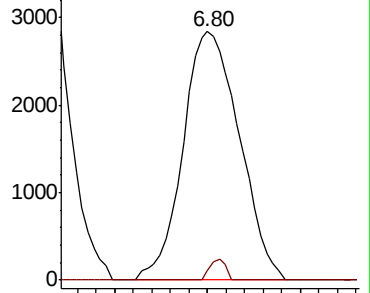
63 100

112 2.4 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VU040548.D (-1605) (-)

Ion 112.00 (111.70 to 112.70): VU040548.D (-1605) (-)



#38

Bromodichloromethane

Concen: 2.337 ug/L

RT: 7.12 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

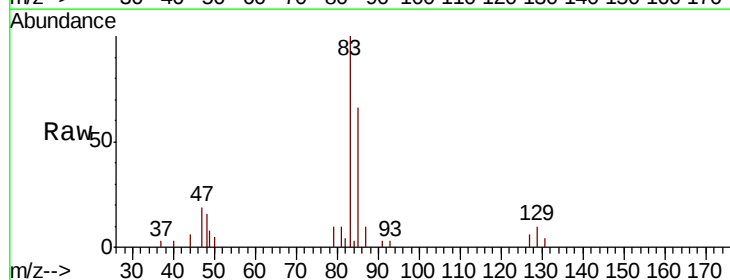
Tgt Ion: 83 Resp: 7175

Ion Ratio Lower Upper

83 100

85 65.5 45.2 84.0

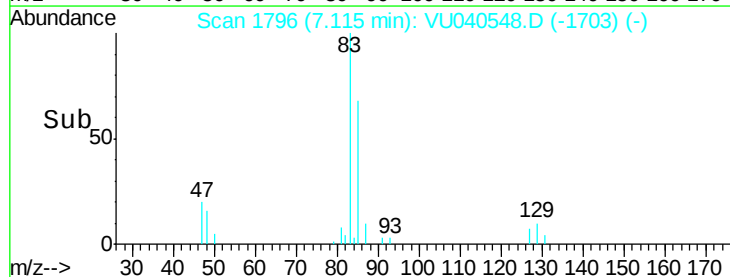
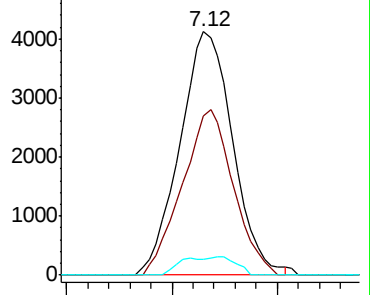
127 6.3 6.7 10.1#

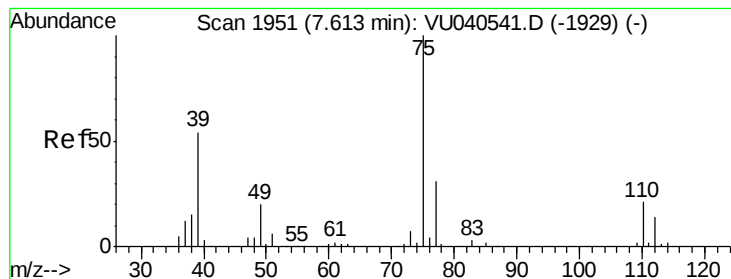


Abundance Ion 83.00 (82.70 to 83.70): VU040548.D (-1703) (-)

Ion 85.00 (84.70 to 85.70): VU040548.D (-1703) (-)

Ion 127.00 (126.70 to 127.70): VU040548.D (-1703) (-)



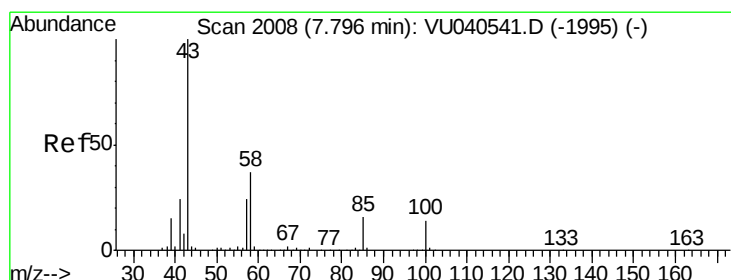
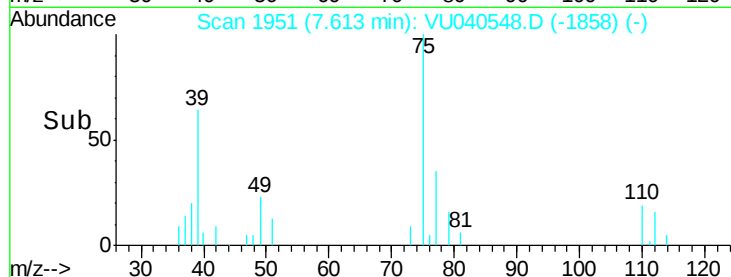
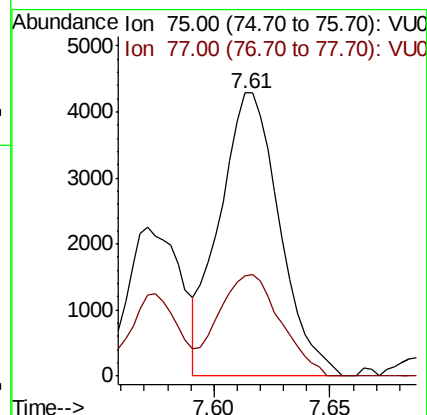
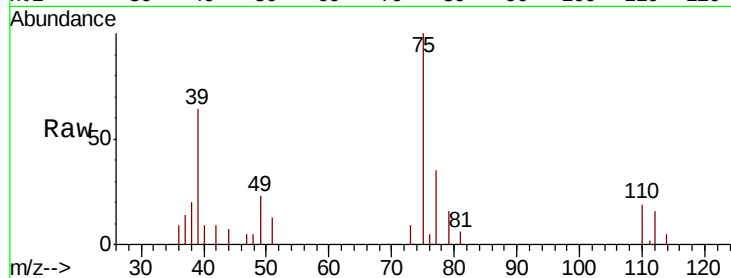


#39

cis-1,3-Dichloropropene
Concen: 2.229 ug/L
RT: 7.61 min Scan# 1951
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-05

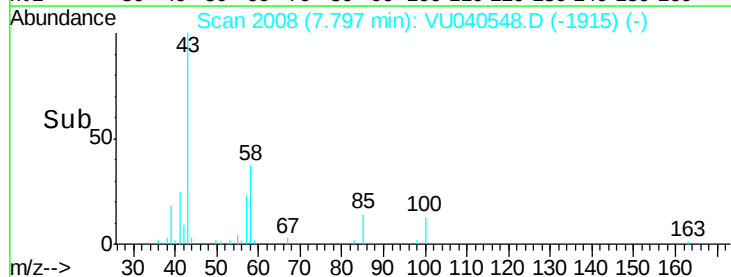
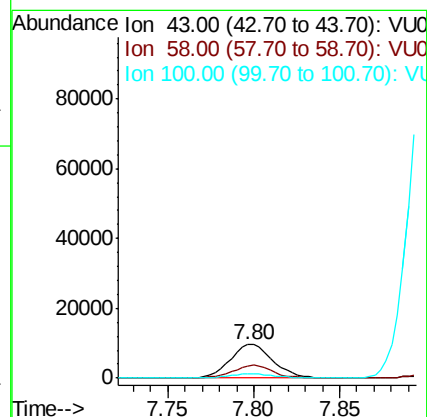
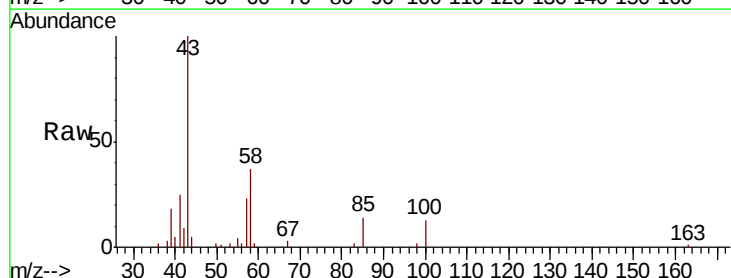
Tot Ion: 75 Resp: 7722
Ion Ratio Lower Upper
75 100
77 35.5 21.4 39.8

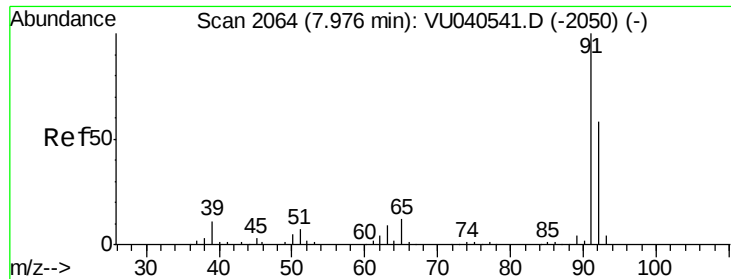


#40

4-Methyl-2-pentanone
Concen: 4.520 ug/L
RT: 7.80 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Tgt Ion: 43 Resp: 16856
Ion Ratio Lower Upper
43 100
58 35.9 29.7 44.5
100 12.8 10.5 15.7





#42

Toluene

Concen: 2.280 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

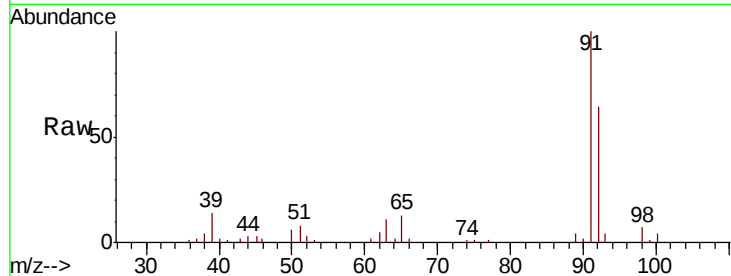
MDL-WATER-05

Tot Ion: 91 Resp: 20036

Ion Ratio Lower Upper

91 100

92 63.6 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU040541.D (-2050) (-)

Ion 92.00 (91.70 to 92.70): VU040541.D (-2050) (-)

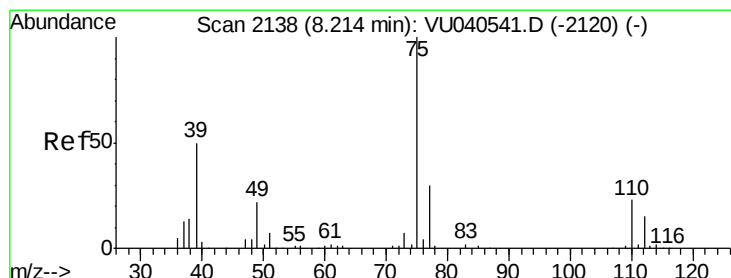
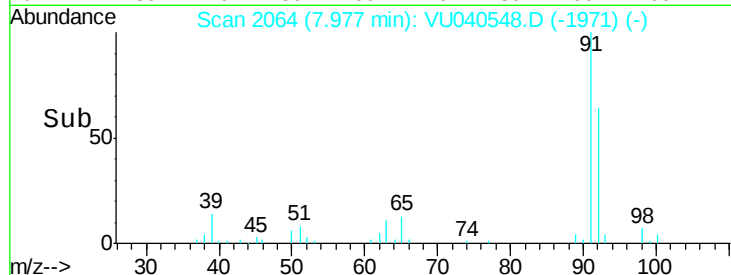
7.98

10000

5000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.471 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU040548.D

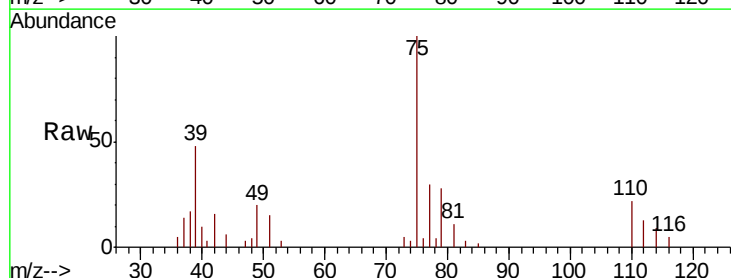
Acq: 07 Oct 2020 16:19

Tgt Ion: 75 Resp: 8617

Ion Ratio Lower Upper

75 100

77 29.7 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU040541.D (-2120) (-)

Ion 77.00 (76.70 to 77.70): VU040541.D (-2120) (-)

8.21

6000

5000

4000

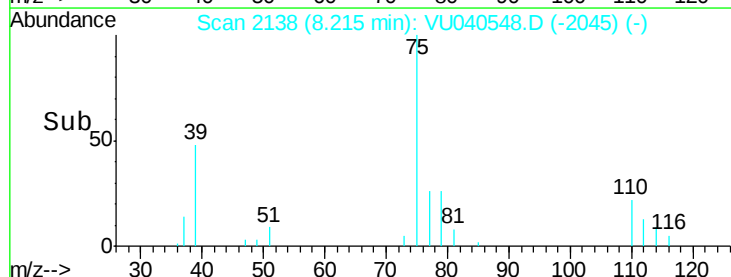
3000

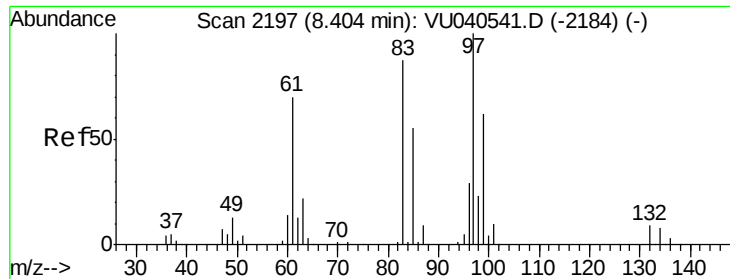
2000

1000

0

Time-->

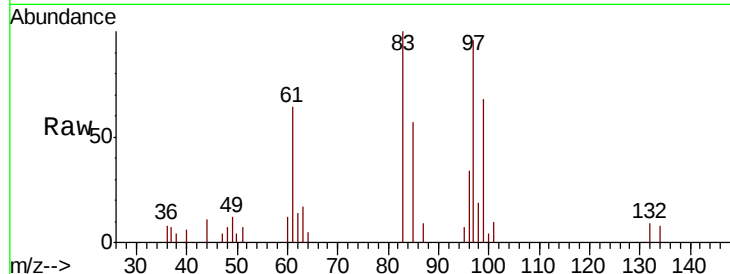




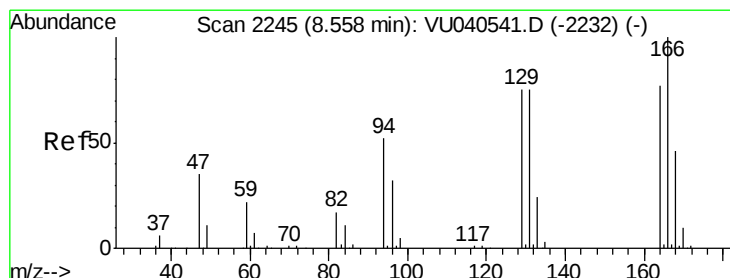
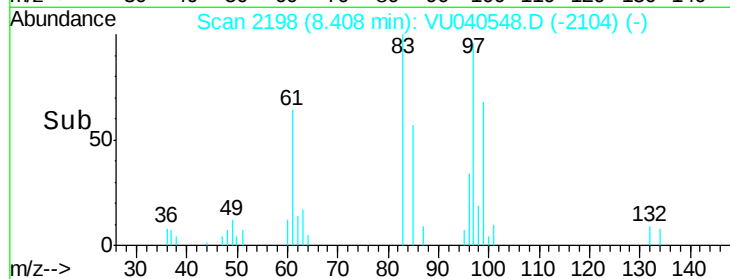
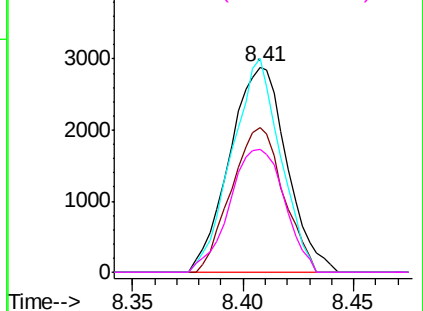
#45
1,1,2-Trichloroethane
Concen: 2.453 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-05

Tot Ion:	97	Resp:	5193
Ion	Ratio	Lower	Upper
97	100		
99	70.8	42.7	79.3
83	104.1	61.0	113.4
85	59.8	39.8	73.8

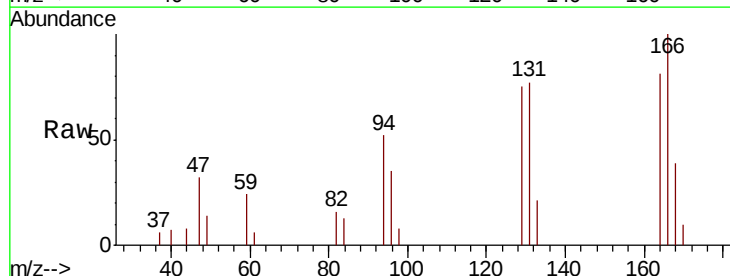


Abundance Ion 97.00 (96.70 to 97.70): VU040548.D (-2197) (-)

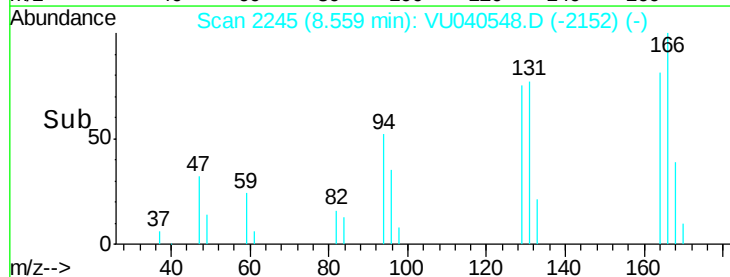
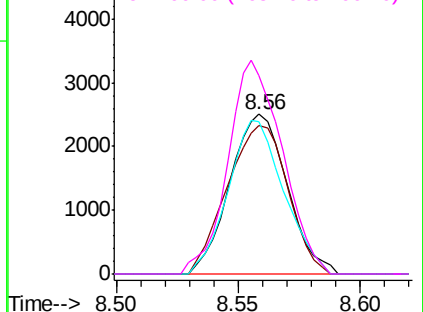


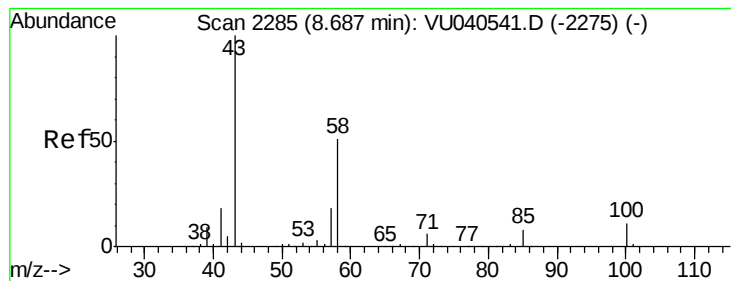
#46
Tetrachloroethene
Concen: 2.551 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Tgt Ion:	164	Resp:	4087
Ion	Ratio	Lower	Upper
164	100		
129	93.1	67.4	125.2
131	95.2	63.8	118.6
166	124.0	88.7	164.7



Abundance Ion 164.00 (163.70 to 164.70): VU040548.D (-2245) (-)





#48

2-Hexanone

Concen: 5.591 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-05

Tot Ion: 43 Resp: 16947

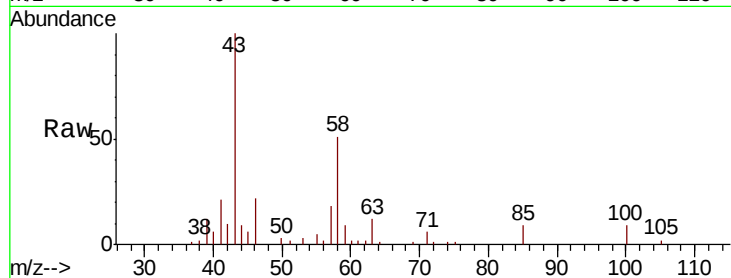
Ion Ratio Lower Upper

43 100

58 58.9 40.6 60.8

57 18.8 14.3 21.5

100 9.6 8.5 12.7

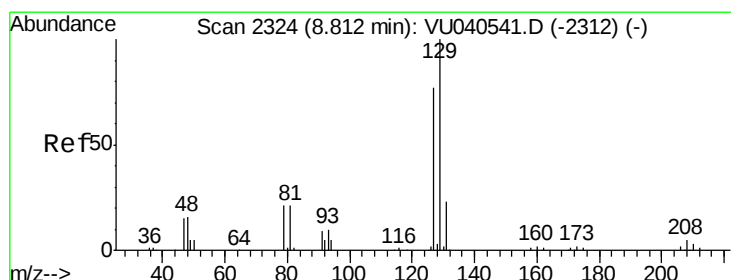
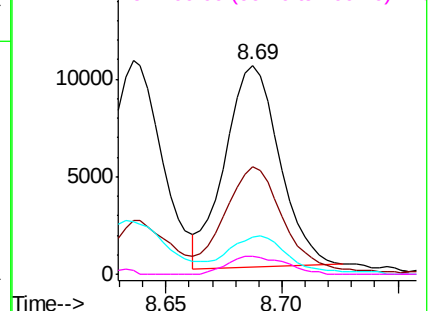
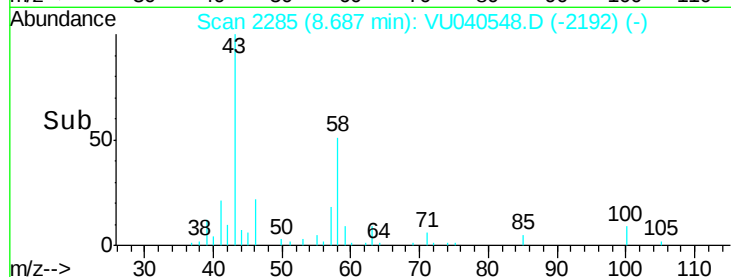


Abundance Ion 43.00 (42.70 to 43.70): VU040548.D (-2192) (-)

Ion 58.00 (57.70 to 58.70): VU040548.D (-2192) (-)

Ion 57.00 (56.70 to 57.70): VU040548.D (-2192) (-)

Ion 100.00 (99.70 to 100.70): VU040548.D (-2192) (-)



#49

Dibromochloromethane

Concen: 2.417 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. 0.00 min

Lab File: VU040548.D

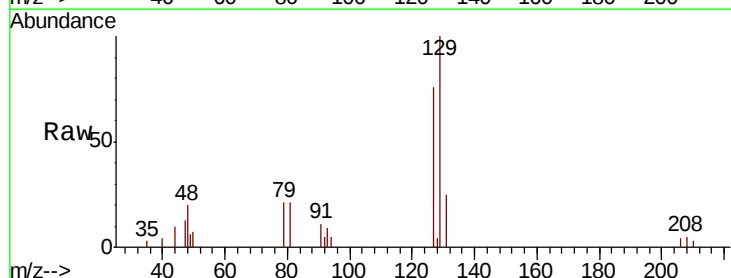
Acq: 07 Oct 2020 16:19

Tgt Ion: 129 Resp: 5589

Ion Ratio Lower Upper

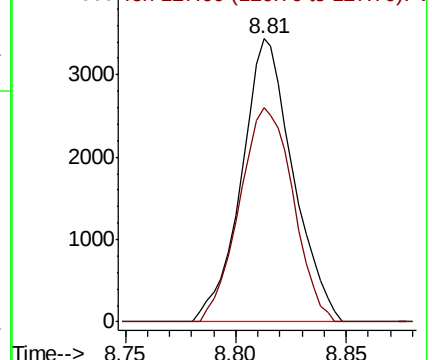
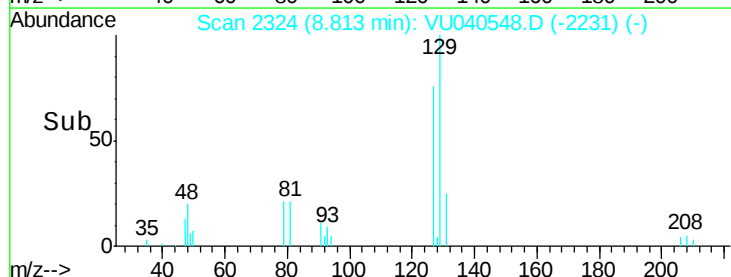
129 100

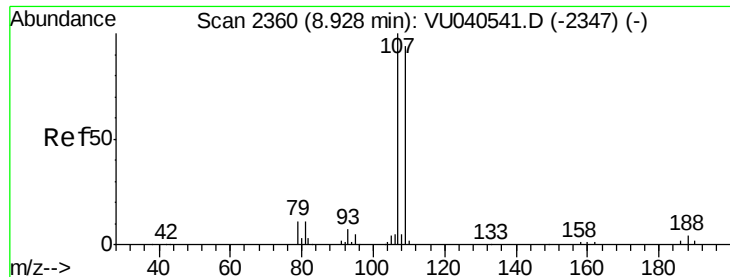
127 75.7 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040548.D (-2231) (-)

Ion 127.00 (126.70 to 127.70): VU040548.D (-2231) (-)

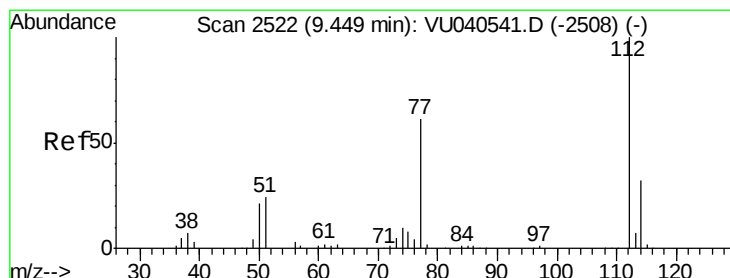
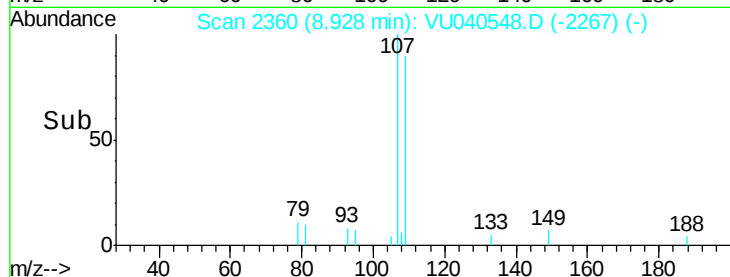
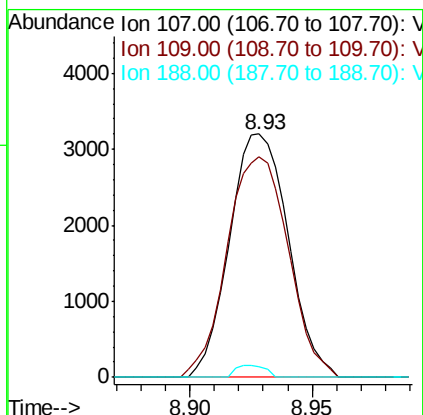
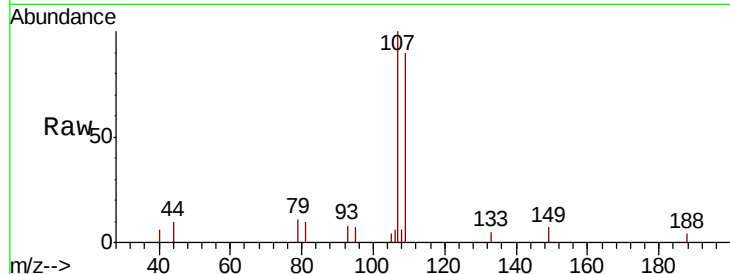




#50
1,2-Dibromoethane
Concen: 2.387 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

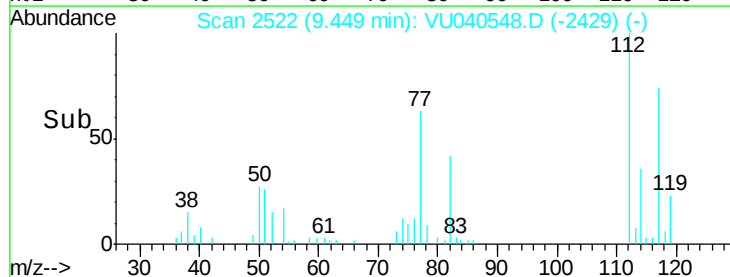
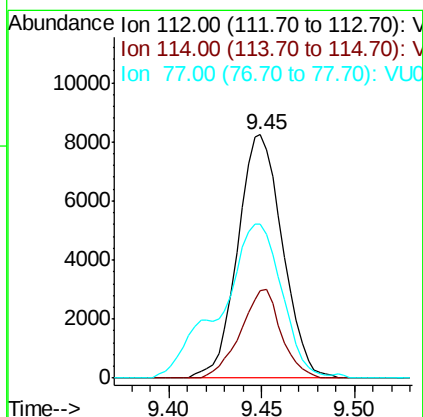
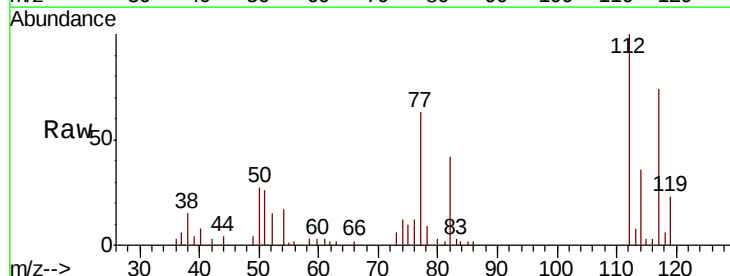
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-05

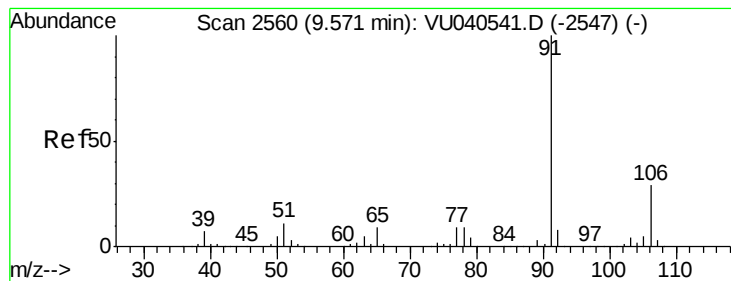
Tot Ion:107 Resp: 5357
Ion Ratio Lower Upper
107 100
109 90.4 67.8 125.8
188 4.2 2.8 4.2#



#51
Chlorobenzene
Concen: 2.397 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Tgt Ion:112 Resp: 13817
Ion Ratio Lower Upper
112 100
114 35.9 22.1 41.1
77 63.1 50.4 75.6





#52

Ethylbenzene

Concen: 2.224 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

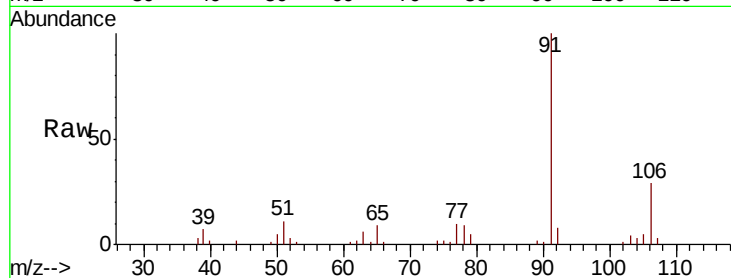
MDL-WATER-05

Tot Ion: 91 Resp: 21690

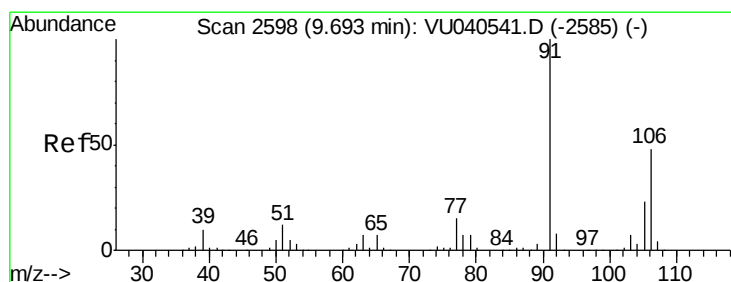
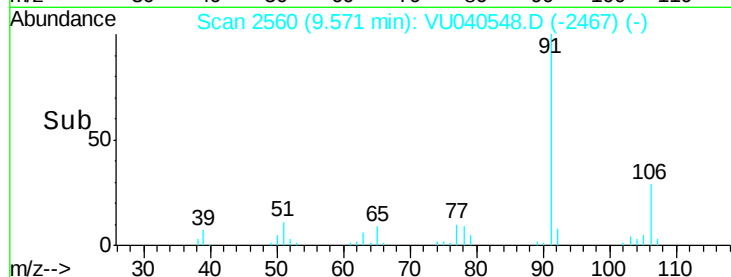
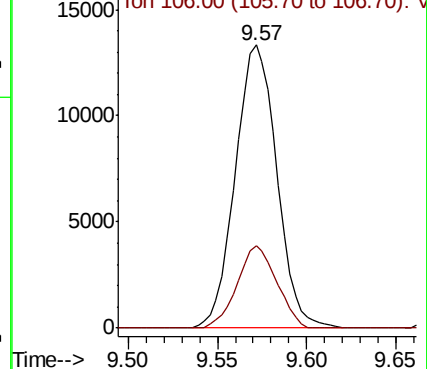
Ion Ratio Lower Upper

91 100

106 29.0 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040541.D (-2547) (-)



#53

m,p-Xylene

Concen: 2.064 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040548.D

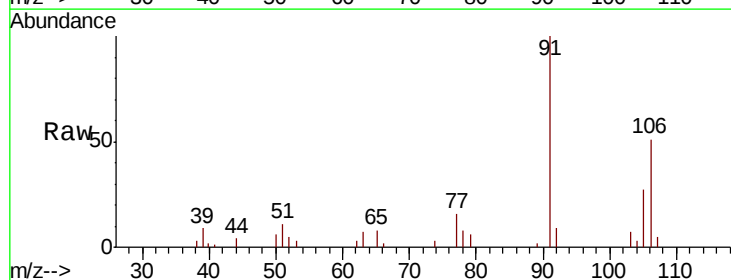
Acq: 07 Oct 2020 16:19

Tgt Ion: 106 Resp: 7414

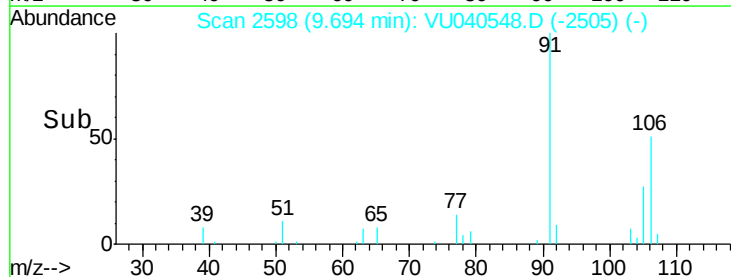
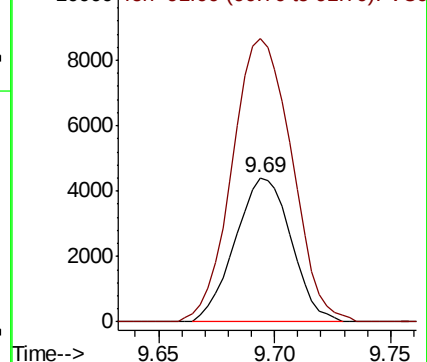
Ion Ratio Lower Upper

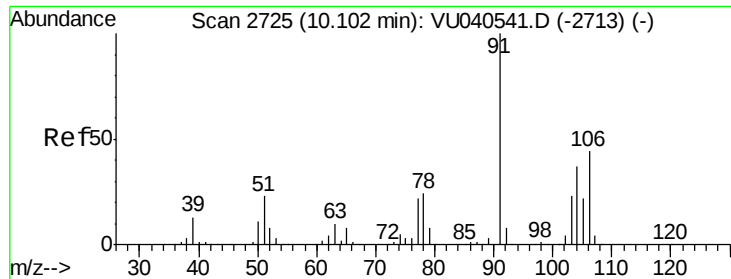
106 100

91 196.6 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040541.D (-2585) (-)





#54

o-xylene

Concen: 1.967 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

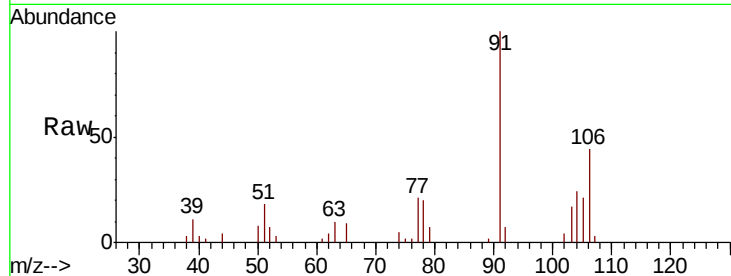
MDL-WATER-05

Tot Ion:106 Resp: 6723

Ion Ratio Lower Upper

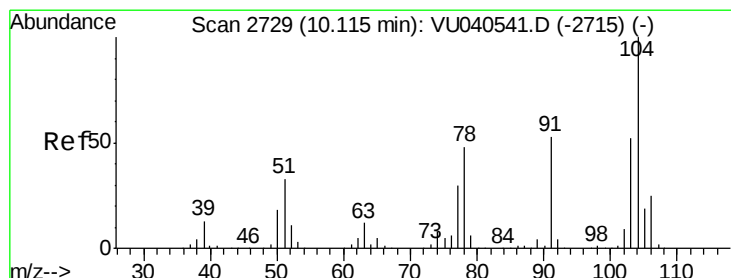
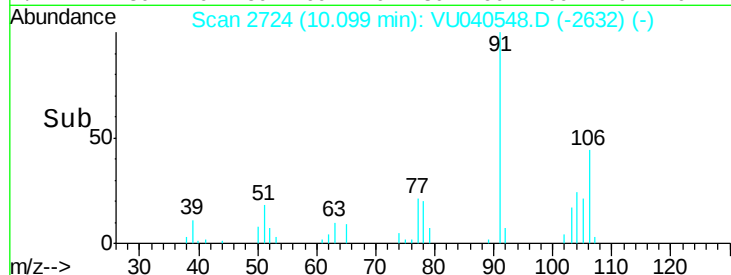
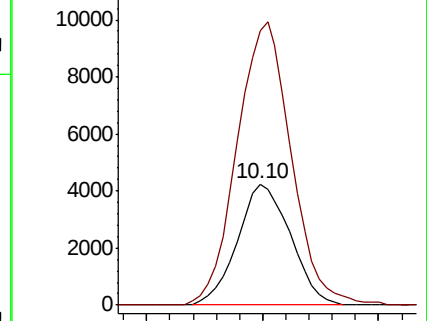
106 100

91 226.4 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.898 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040548.D

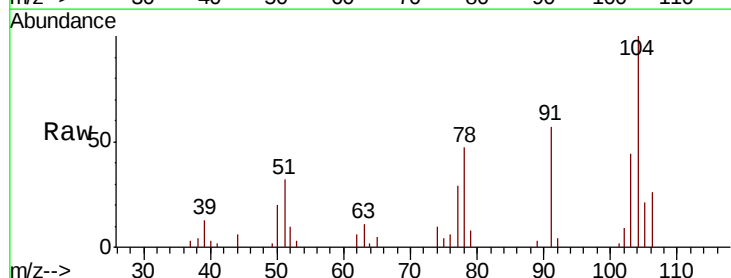
Acq: 07 Oct 2020 16:19

Tgt Ion:104 Resp: 11425

Ion Ratio Lower Upper

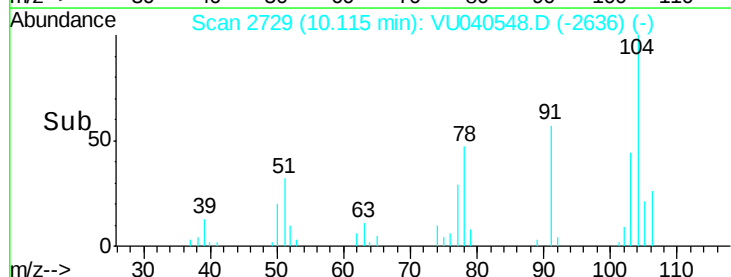
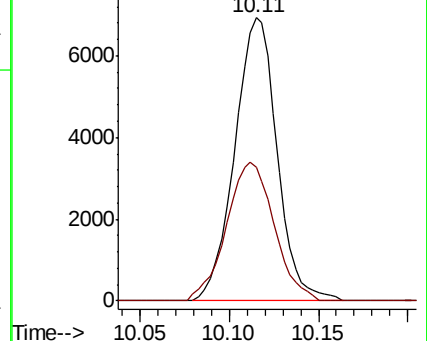
104 100

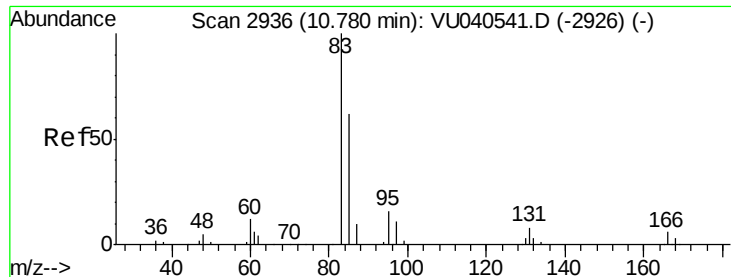
78 47.0 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

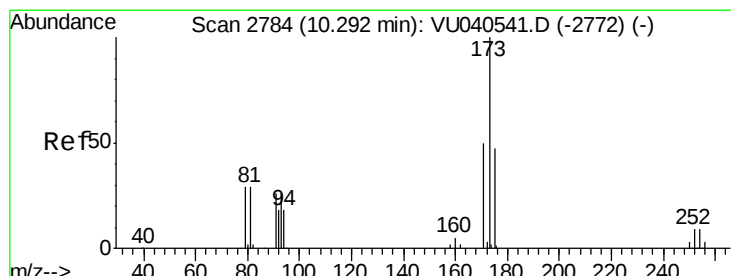
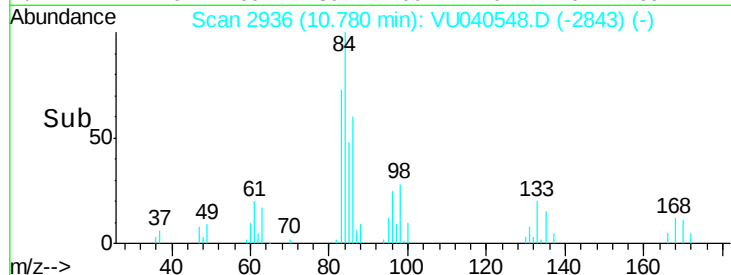
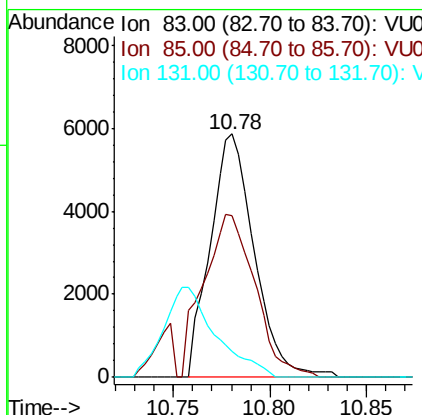
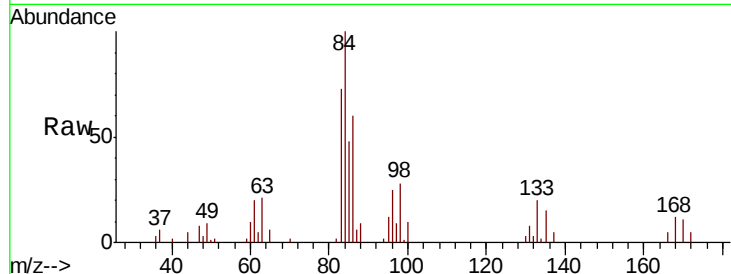




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.483 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

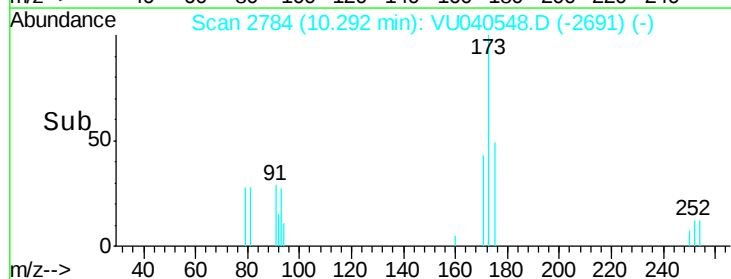
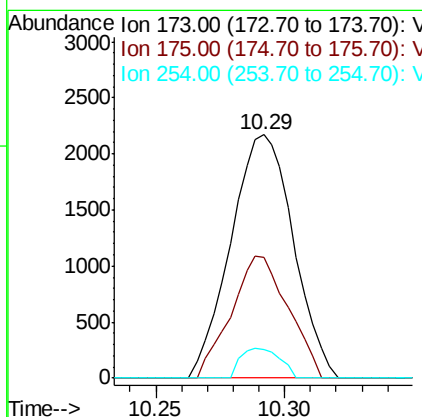
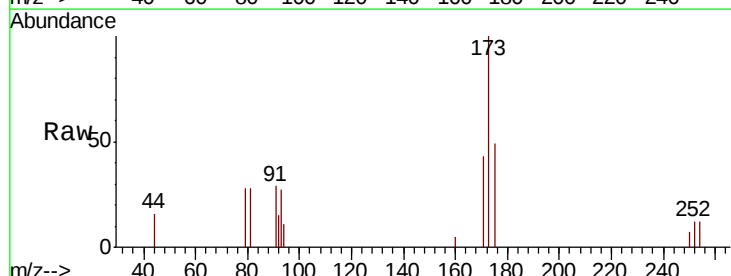
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-05

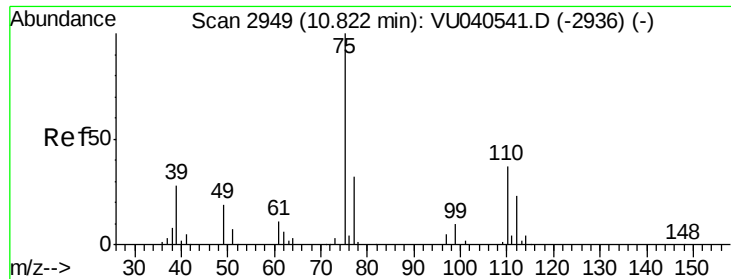
Tot Ion: 83 Resp: 9299
 Ion Ratio Lower Upper
 83 100
 85 66.4 44.2 82.2
 131 10.8 7.1 10.7#



#59
 Bromoform
 Concen: 2.331 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Tgt Ion: 173 Resp: 3678
 Ion Ratio Lower Upper
 173 100
 175 45.5 38.5 57.7
 254 7.7 7.0 10.6

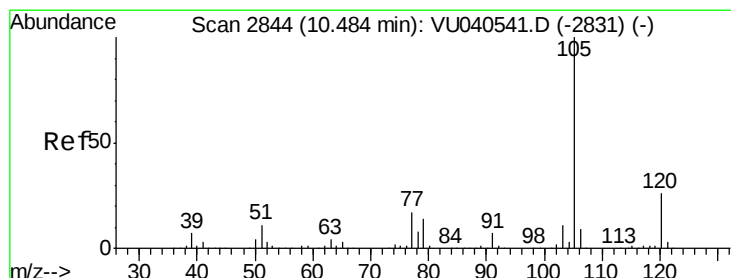
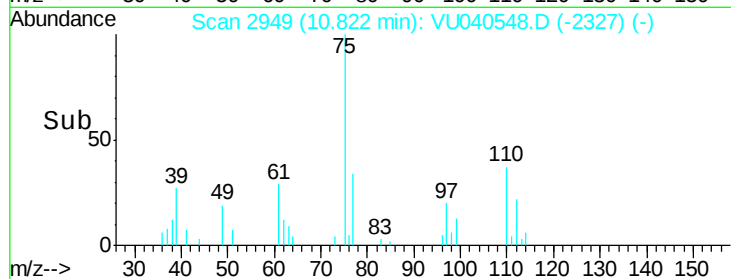
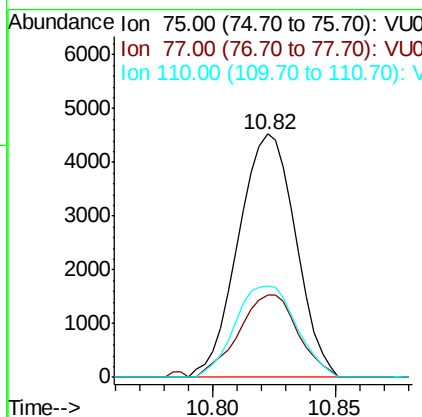
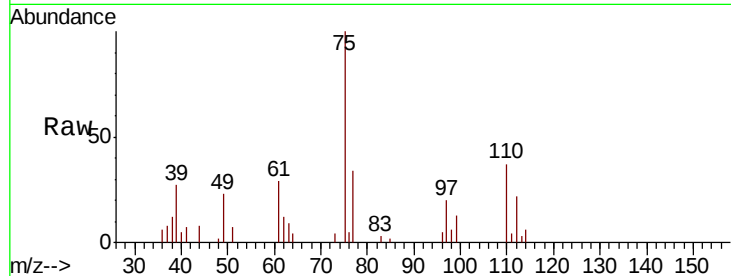




#60
 1,2,3-Trichloropropane
 Concen: 2.526 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

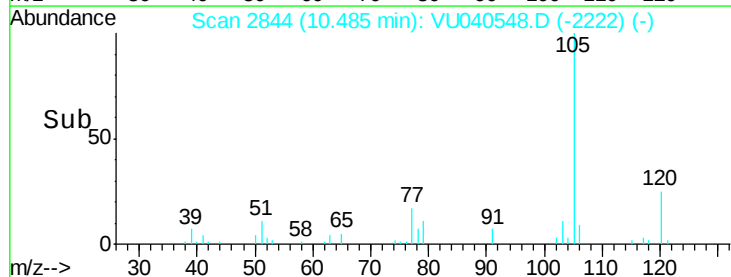
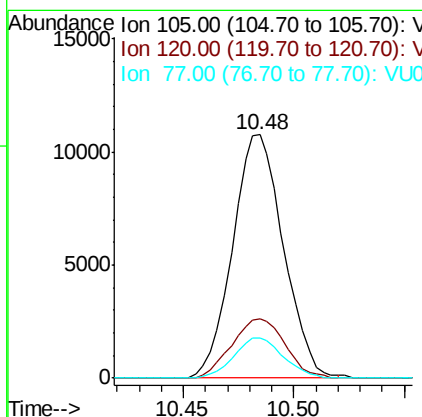
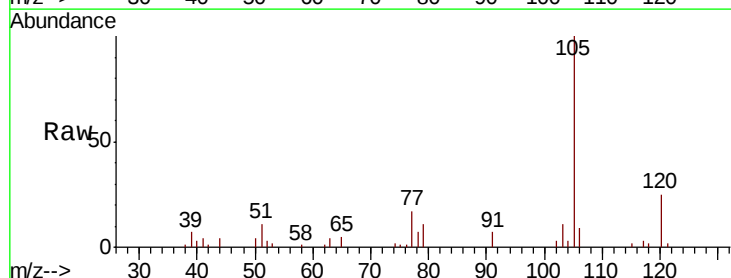
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-05

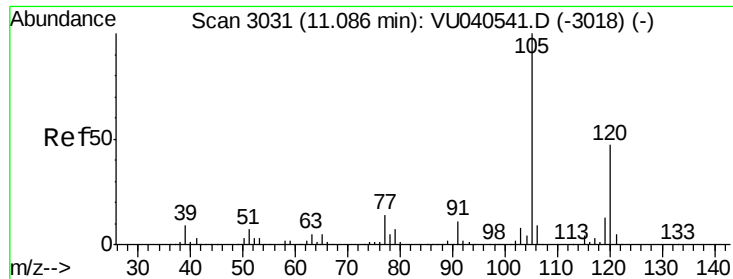
Tot Ion: 75 Resp: 7387
 Ion Ratio Lower Upper
 75 100
 77 35.1 26.4 39.6
 110 40.3 30.1 45.1



#61
 Isopropylbenzene
 Concen: 1.986 ug/L
 RT: 10.48 min Scan# 2844
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Tgt Ion: 105 Resp: 17168
 Ion Ratio Lower Upper
 105 100
 120 25.6 20.7 31.1
 77 16.2 13.8 20.8

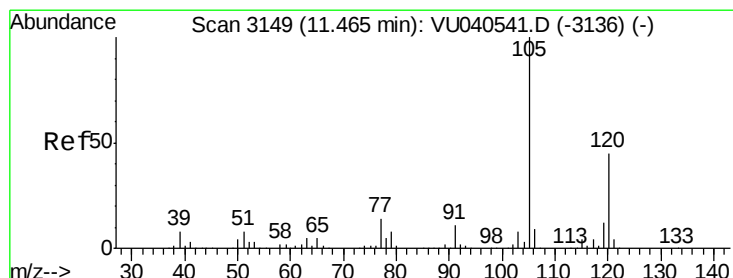
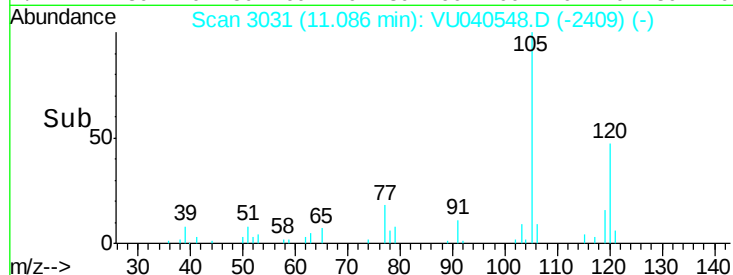
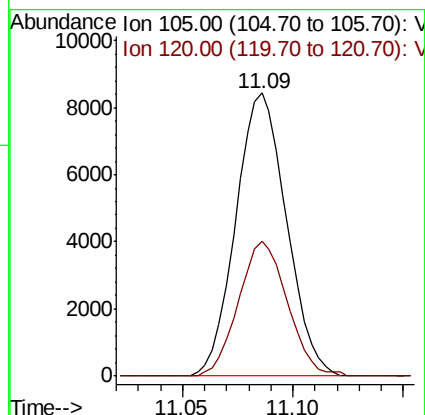
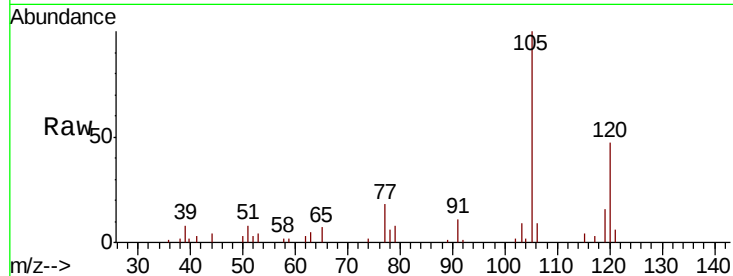




#62
 1,3,5-Trimethylbenzene
 Concen: 1.891 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

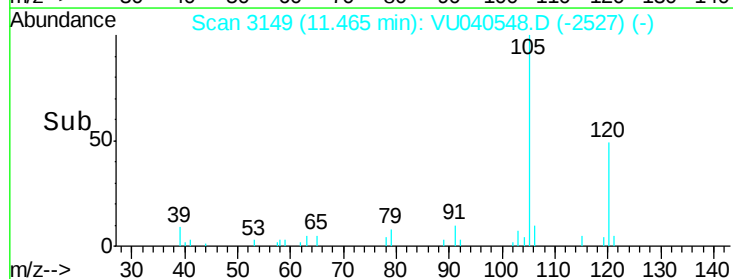
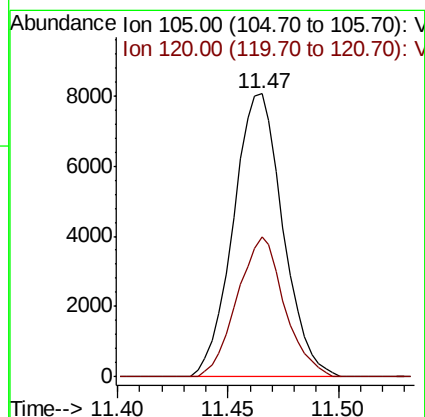
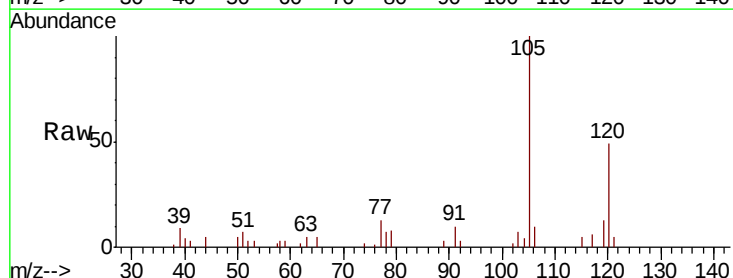
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-05

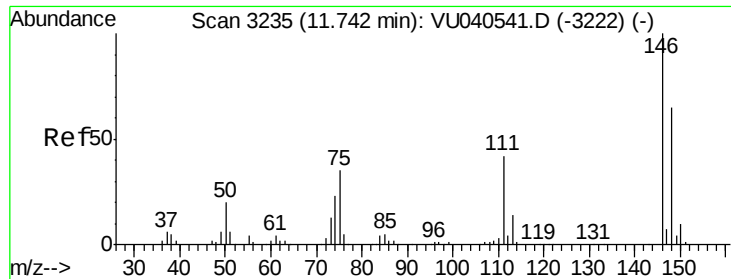
Tot Ion:105 Resp: 13436
 Ion Ratio Lower Upper
 105 100
 120 45.6 38.6 58.0



#63
 1,2,4-Trimethylbenzene
 Concen: 1.747 ug/L
 RT: 11.47 min Scan# 3149
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Tgt Ion:105 Resp: 12586
 Ion Ratio Lower Upper
 105 100
 120 47.0 35.7 53.5





#64

1,3-Dichlorobenzene

Concen: 2.236 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-05

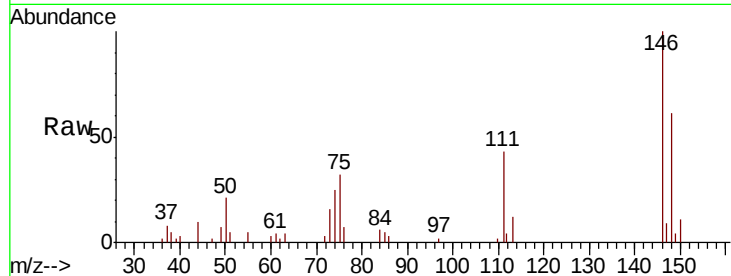
Tot Ion:146 Resp: 9425

Ion Ratio Lower Upper

146 100

111 42.7 30.8 57.2

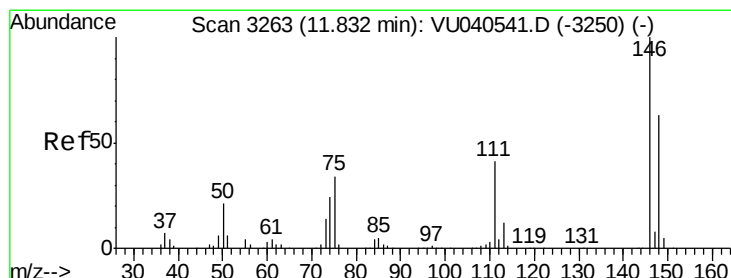
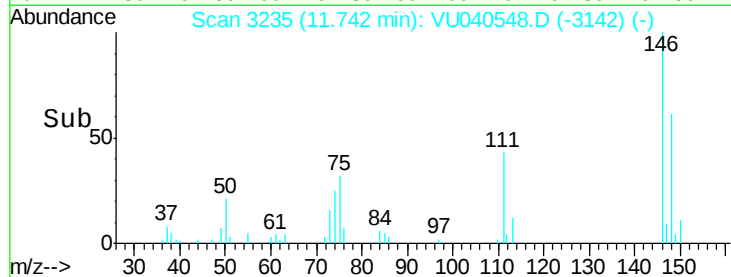
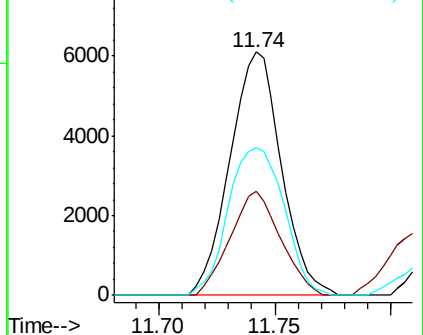
148 60.8 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.454 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

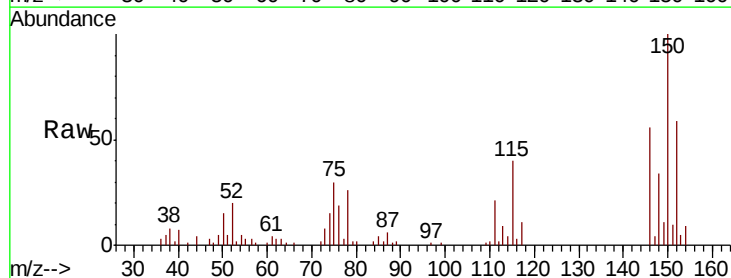
Tgt Ion:146 Resp: 10868

Ion Ratio Lower Upper

146 100

111 37.5 28.7 53.3

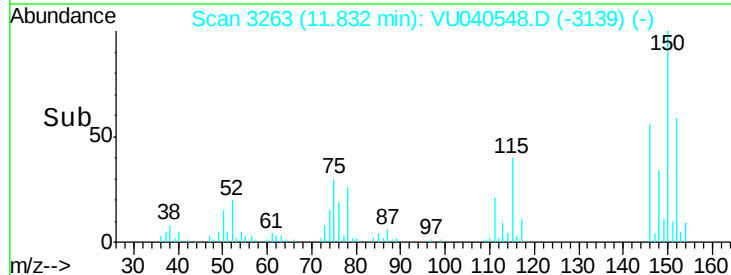
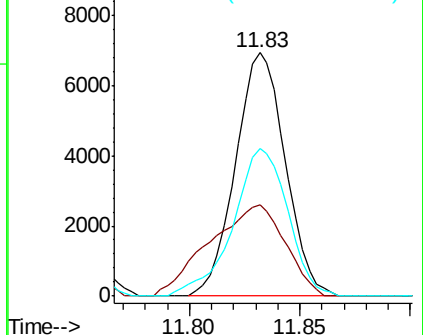
148 60.7 44.1 81.9

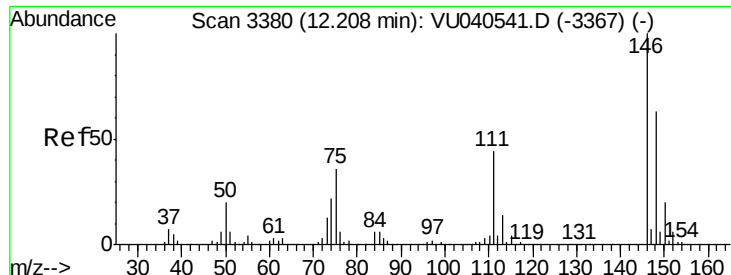


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dichlorobenzene

Concen: 2.625 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-05

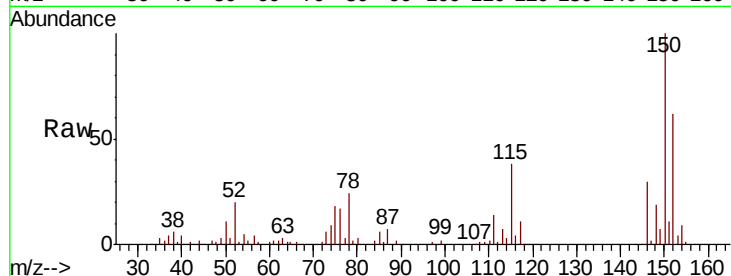
Tot Ion:146 Resp: 11087

Ion Ratio Lower Upper

146 100

111 45.6 35.7 53.5

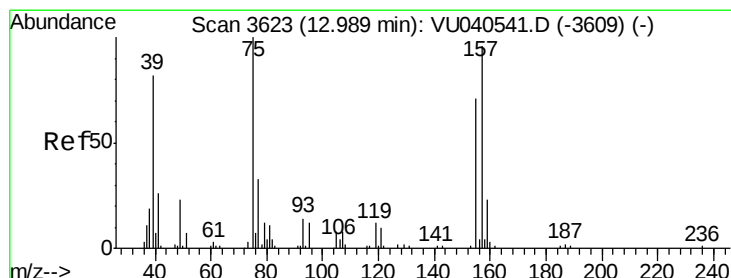
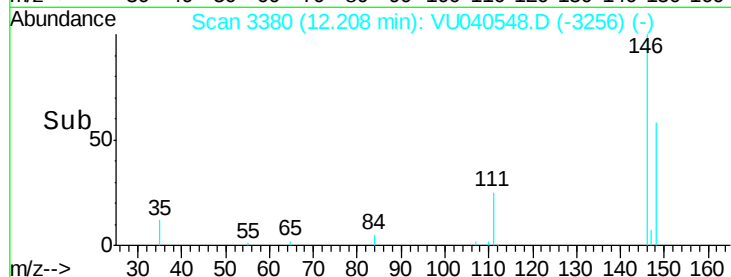
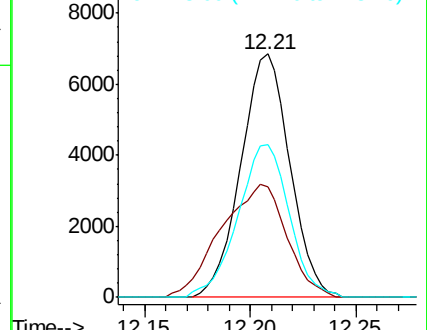
148 62.7 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 2.736 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040548.D

Acq: 07 Oct 2020 16:19

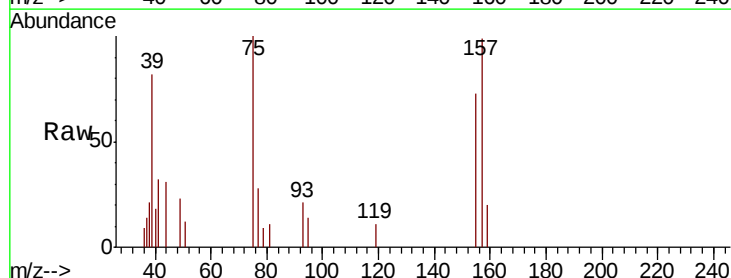
Tgt Ion: 75 Resp: 2248

Ion Ratio Lower Upper

75 100

155 72.9 61.0 91.6

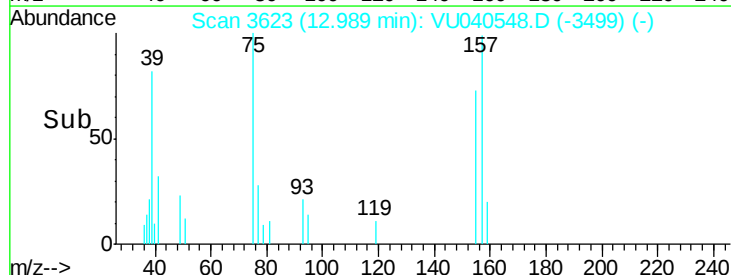
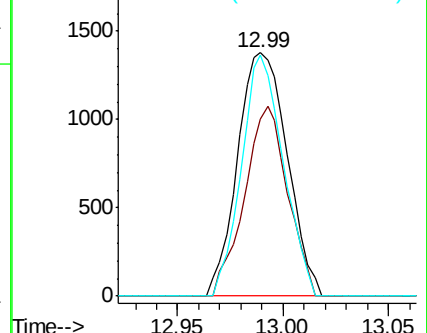
157 99.2 73.5 110.3

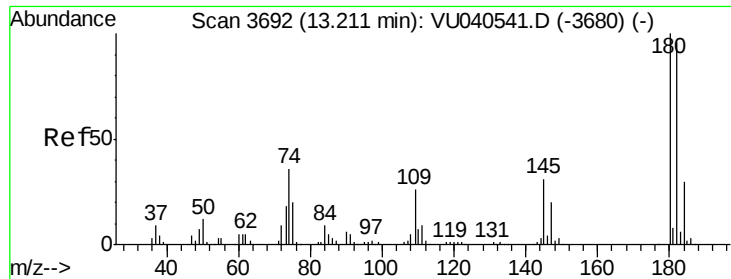


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

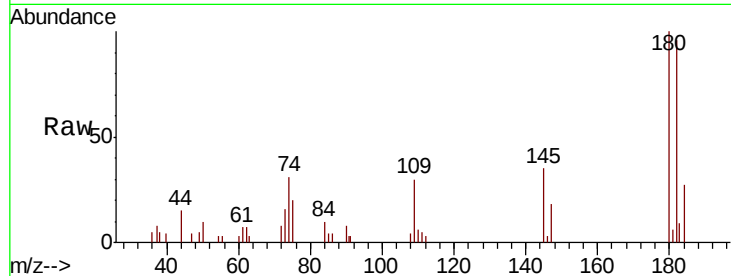




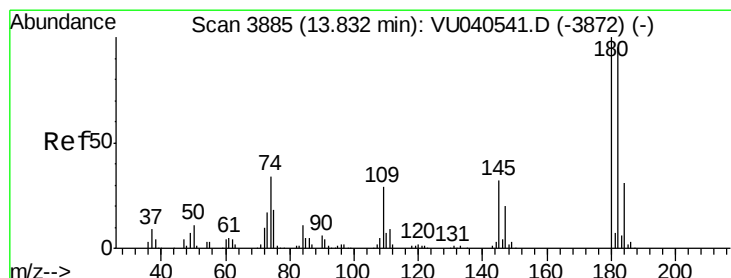
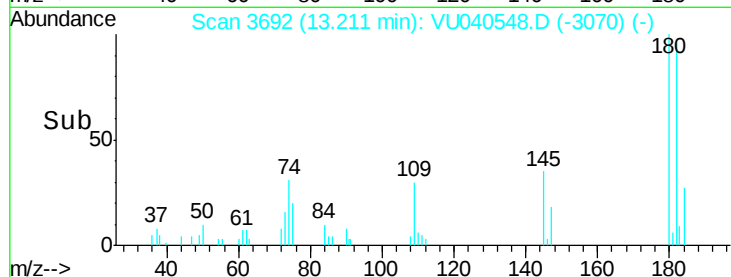
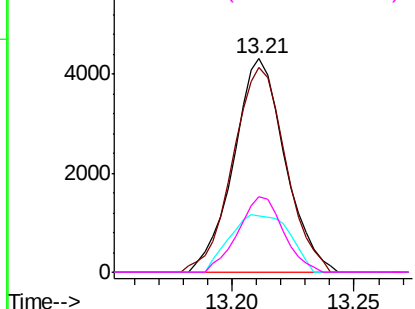
#69
 1,3,5-Trichlorobenzene
 Concen: 2.276 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-05

Tot Ion:180 Resp: 6287
 Ion Ratio Lower Upper
 180 100
 182 98.4 76.9 115.3
 184 31.5 24.2 36.2
 145 31.0 25.4 38.2

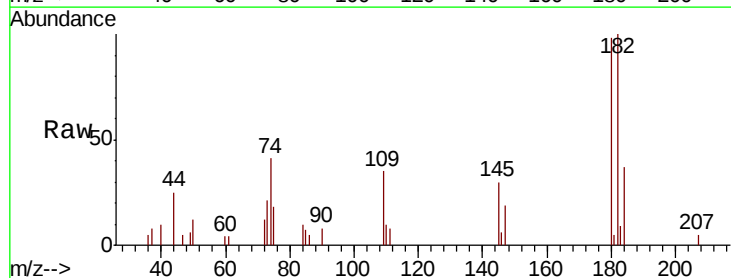


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

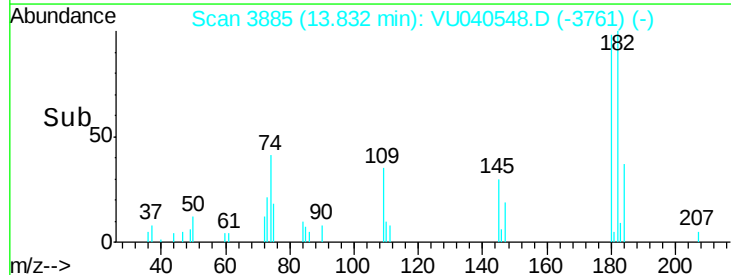
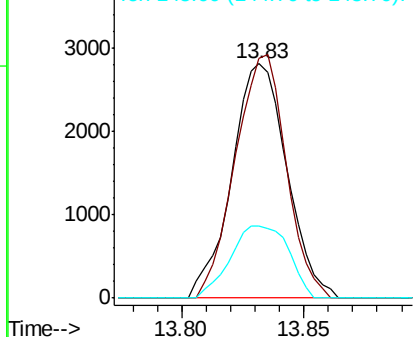


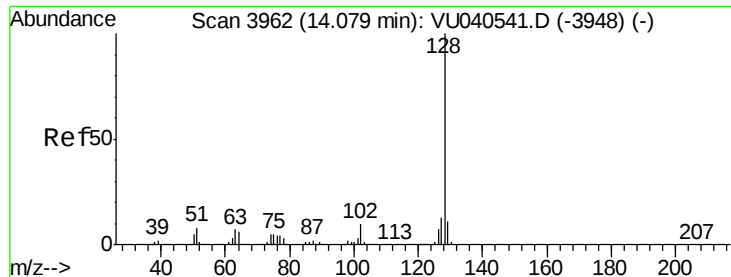
#70
 1,2,4-trichlorobenzene
 Concen: 1.840 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040548.D
 Acq: 07 Oct 2020 16:19

Tgt Ion:180 Resp: 4405
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.0 112.6
 145 32.8 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

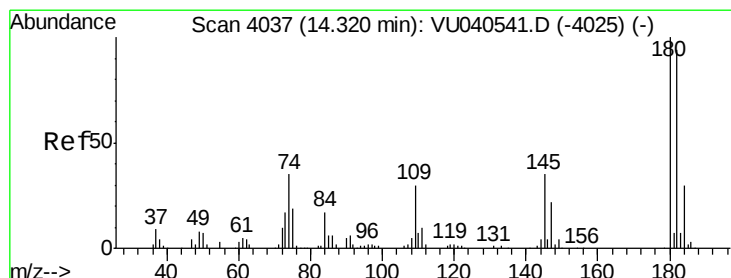
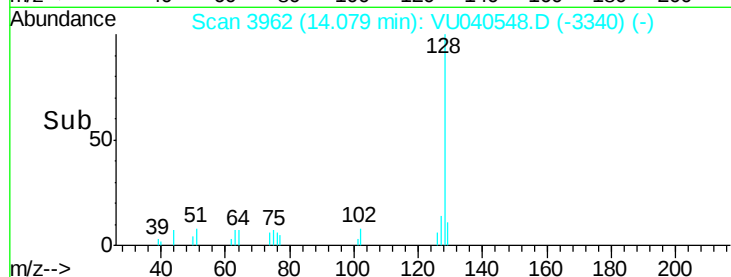
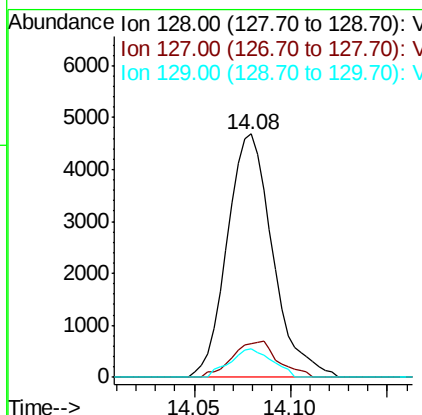
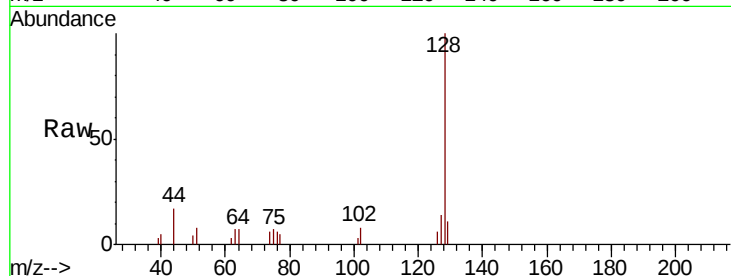




#71
Naphthalene
Concen: 1.037 ug/L
RT: 14.08 min Scan# 3962
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-05

Tot Ion:128 Resp: 7674
Ion Ratio Lower Upper
128 100
127 14.7 10.5 15.7
129 10.8 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 1.622 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. 0.00 min
Lab File: VU040548.D
Acq: 07 Oct 2020 16:19

Tgt Ion:180 Resp: 3855
Ion Ratio Lower Upper
180 100
182 96.9 77.7 116.5
145 34.1 28.4 42.6

